

=> d his

(FILE 'HOME' ENTERED AT 14:21:25 ON 08 JAN 2009)

FILE 'REGISTRY' ENTERED AT 14:21:39 ON 08 JAN 2009

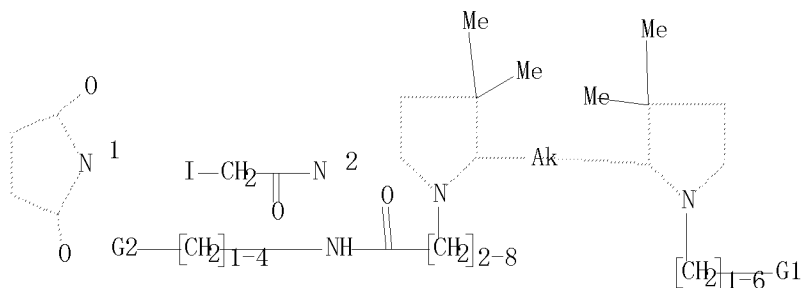
L1 STRUCTURE UPLOADED

L2 4 S L1

L3 26 S L1 FULL

=> d que l3 stat

L1 STR



G1 S03H, H

G2 [@1], [@2]

Structure attributes must be viewed using STN Express query preparation.

L3 26 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 89 ITERATIONS

26 ANSWERS

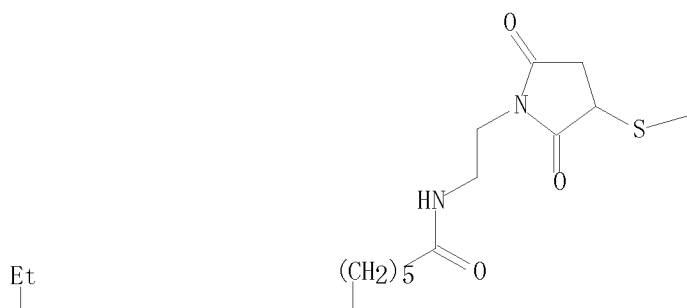
SEARCH TIME: 00.00.01

=> d 1-26 ide can

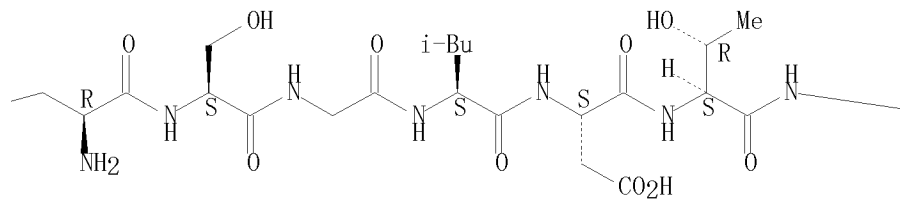
L3 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1071969-32-8 REGISTRY
ED Entered STN: 11 Nov 2008
CN INDEX NAME NOT YET ASSIGNED
FS PROTEIN SEQUENCE: STEREOSEARCH
MF C103 H152 N22 O33 S3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.

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[illegible]

The chemical structure shows a central polyene chain consisting of five conjugated double bonds. The chain is substituted with four methyl groups (Me) at the 2, 3, 6, and 7 positions. At each end of the chain (positions 1 and 8), there is a dimethyliminomethyl group (-N⁺(Me)CH₂-) attached to a 2,5-dihydroxyphenyl ring. The phenyl rings are further substituted with a sulfonate group (-SO₃H) at the 4-position.

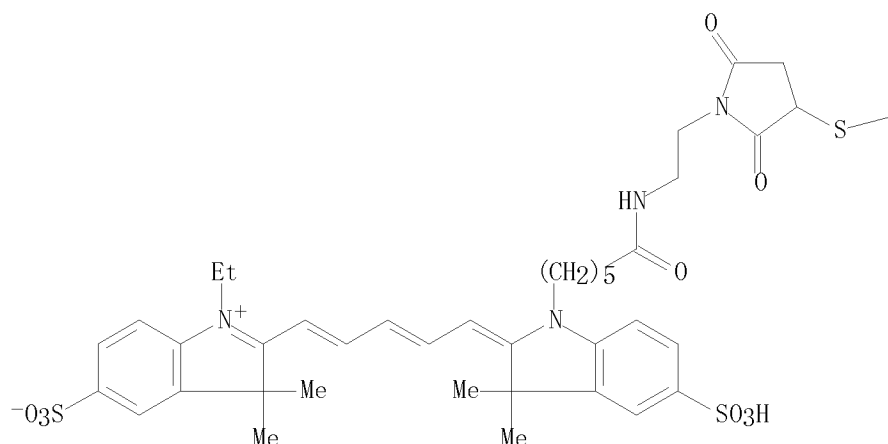
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:464926

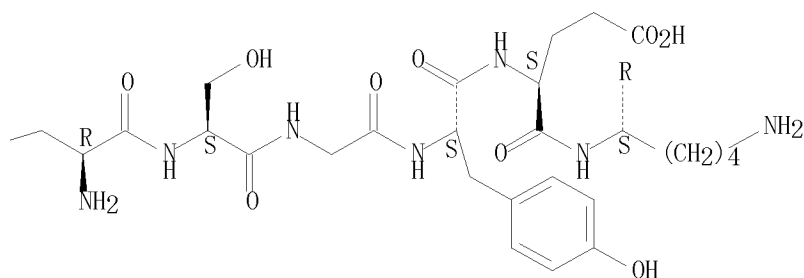
L3 ANSWER 2 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
RN 1071969-30-6 REGISTRY
ED Entered STN: 11 Nov 2008
CN INDEX NAME NOT YET ASSIGNED
FS PROTEIN SEQUENCE; STEREOSEARCH
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SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.

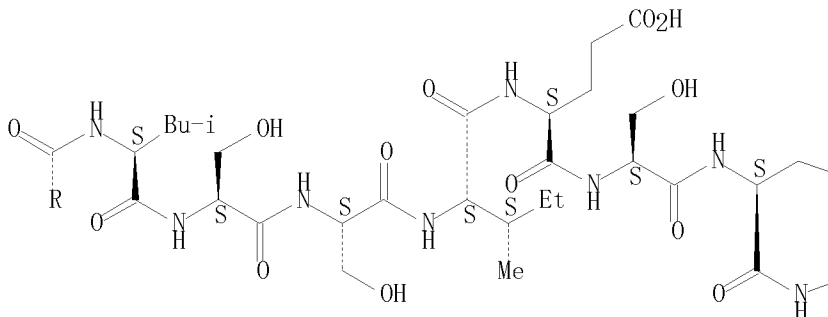
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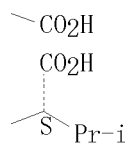
PAGE 1-B



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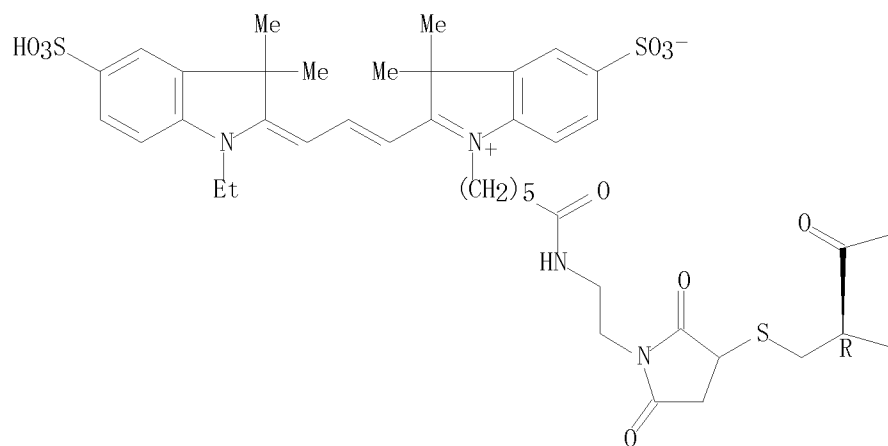
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:464926

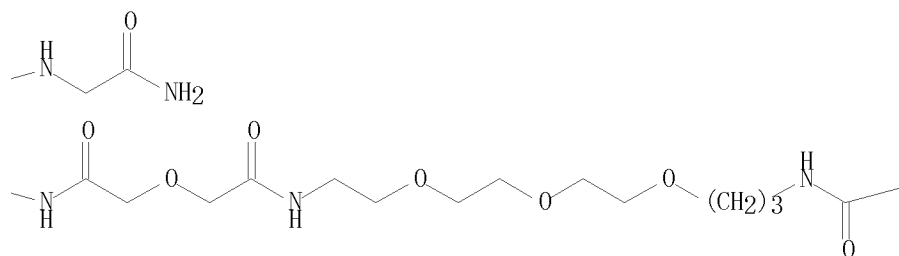
L3 ANSWER 3 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 950890-22-9 REGISTRY
 ED Entered STN: 18 Oct 2007
 CN Glycinamide, L-tyrosyl-D-alanyl-L-phenylalanyl-L- α -glutamyl-L-
 isoleucyl-L-isoleucylglycylglycyl-18-amino-5-oxo-3,9,12,15-tetraoxa-6-
 azaoctadecanoyl-S-[1-[2-[[6-[2-[3-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-
 sulfo-2H-indol-2-ylidene)-1-propen-1-yl]-3,3-dimethyl-5-sulfo-3H-indolio]-
 1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-, inner salt
 (CA INDEX NAME)
 FS PROTEIN SEQUENCE; STEREOSEARCH
 MF C97 H137 N17 O28 S3
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.
 Double bond geometry unknown.

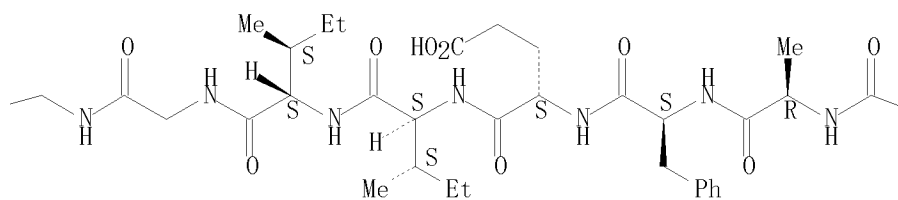
PAGE 1-A



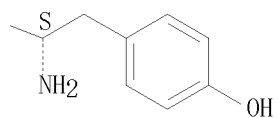
PAGE 1-B



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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:400216

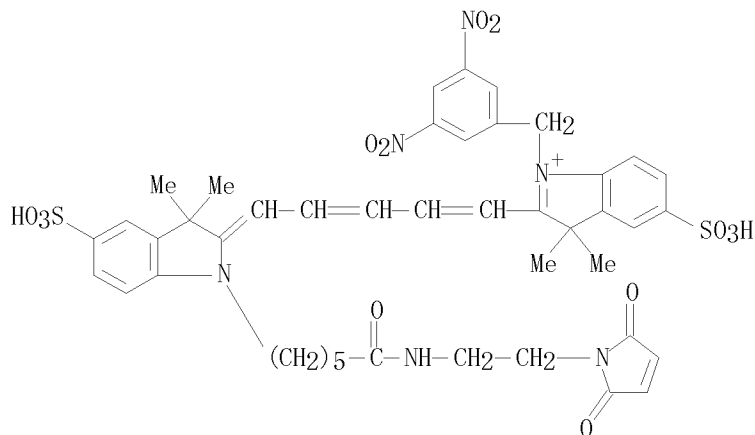
L3 ANSWER 4 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 945985-10-4 REGISTRY
 ED Entered STN: 04 Sep 2007
 CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-[(3,5-dinitrophenyl)methyl]-3,3-dimethyl-5-sulfo-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

OTHER NAMES:

CN Cy 5Q
 MF C44 H47 N6 O13 S2 . C2 F3 O2
 SR CA
 LC STN Files: CA, CAPLUS

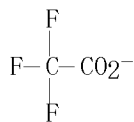
CM 1

CRN 945985-09-1
 CMF C44 H47 N6 O13 S2



CM 2

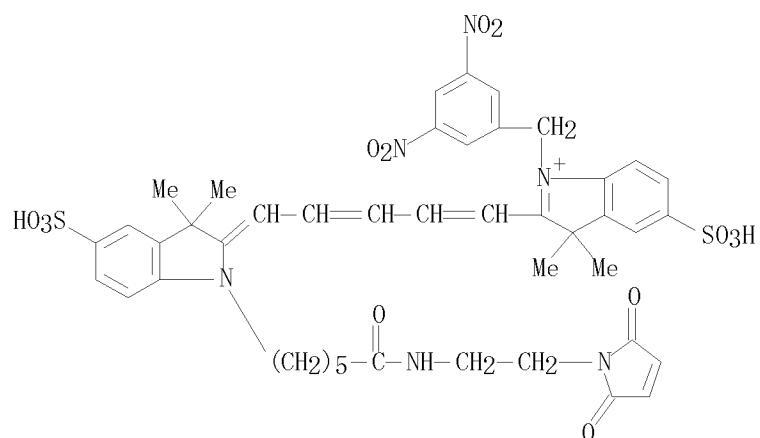
CRN 14477-72-6
 CMF C2 F3 O2



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:253147

L3 ANSWER 5 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
RN 945985-09-1 REGISTRY
ED Entered STN: 04 Sep 2007
CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-[(3,5-dinitrophenyl)methyl]-3,3-dimethyl-5-sulfo- (CA INDEX NAME)
MF C44 H47 N6 O13 S2
CI COM
SR CA

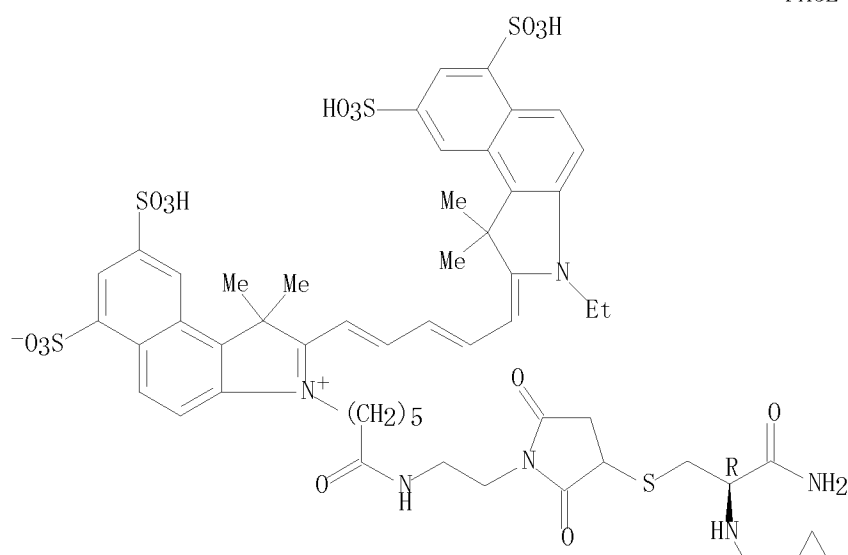


L3 ANSWER 6 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 944336-77-0 REGISTRY
 ED Entered STN: 09 Aug 2007
 CN L-Cysteinamide, glycy-L-arginyl-L-lysyl-L-lysyl-L-arginyl-L-arginyl-L-glutamyl-L-arginyl-L-arginyl-L-arginylglycyl-S-[1-[2-[[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadien-1-yl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (CA INDEX NAME)
 FS PROTEIN SEQUENCE; STEREOSEARCH
 MF C107 H168 N38 O28 S5
 SR CA
 LC STN Files: CA, CAPLUS

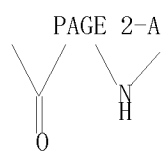
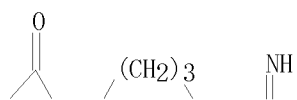
RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.
 Double bond geometry unknown.

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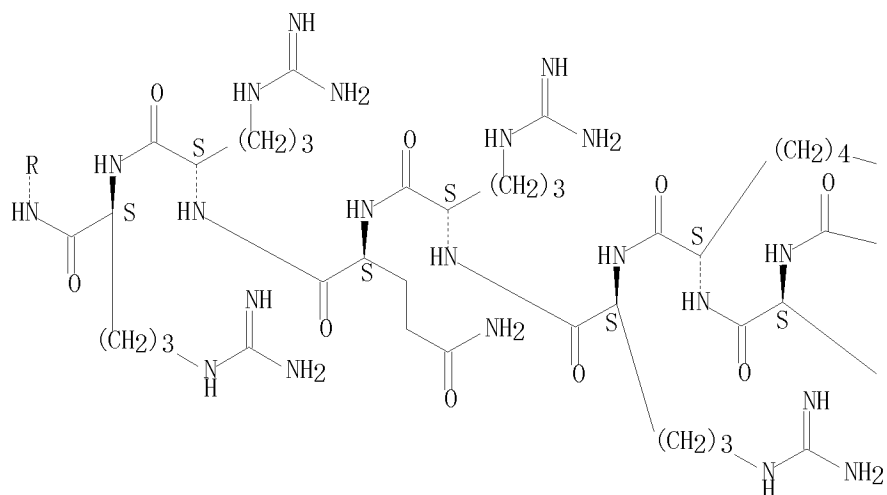
PAGE 1-B



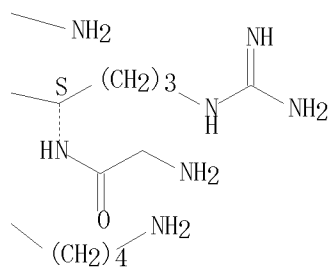
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1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

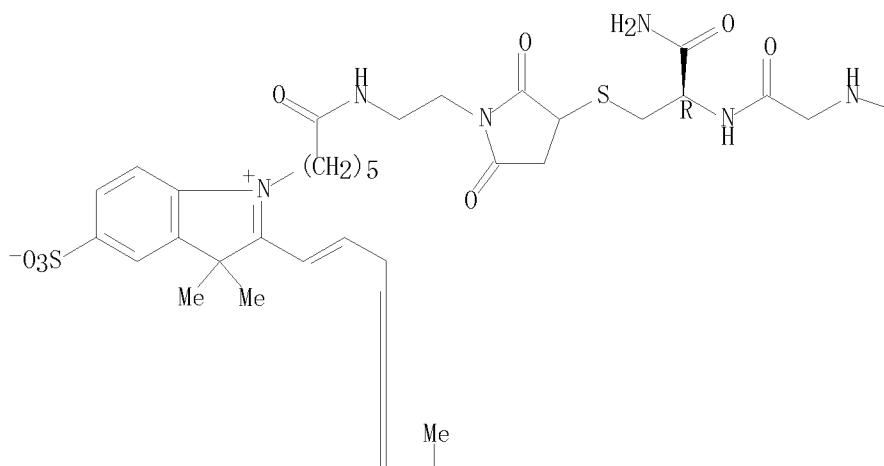
REFERENCE 1: 147:186998

L3 ANSWER 7 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 918959-25-8 REGISTRY
 ED Entered STN: 01 Feb 2007
 CN L-Cysteinamide, N-acetyl-L-histidyl-L-histidyl-L-histidyl-L-histidyl-L-histidyl-L-histidylglycyl-L-leucyl-2-methylalanyl-L-alanyl-L-alanyl-glycylglycyl-L-tryptophylglycyl-S-[1-[2-[[6-[2-[3-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1-propen-1-yl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (CA INDEX NAME)
 FS PROTEIN SEQUENCE; STEREOSEARCH
 MF C113 H146 N34 O26 S3
 SR CA
 LC STN Files: CA, CAPLUS

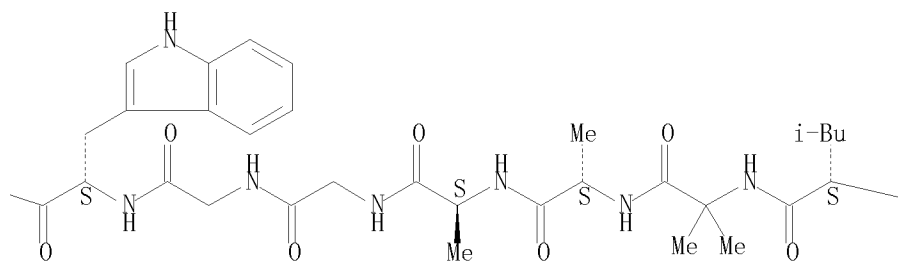
RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.
 Double bond geometry unknown.

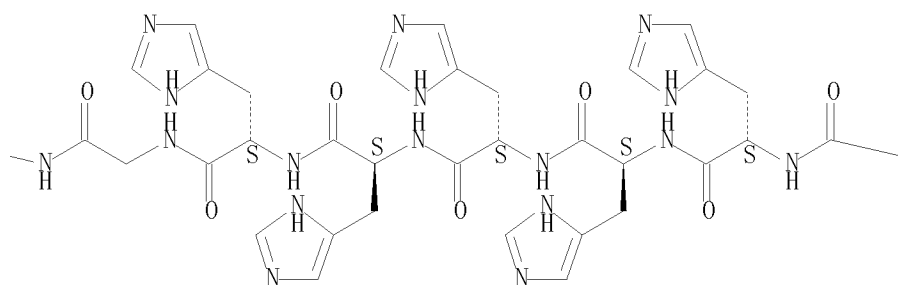
PAGE 1-A



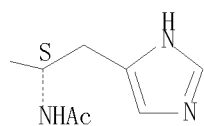
PAGE 1-B



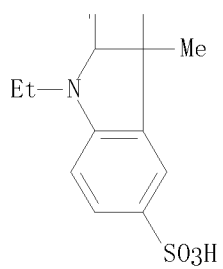
PAGE 1-C



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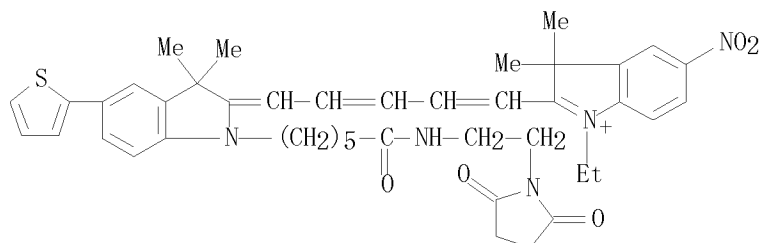
PAGE 2-A



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:137336

L3 ANSWER 8 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
RN 911318-70-2 REGISTRY
ED Entered STN: 26 Oct 2006
CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dioxo-1-pyrrolidiny)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-(2-thienyl)-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-nitro- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dioxo-1-pyrrolidiny)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-(2-thienyl)-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-nitro- (9CI)
MF C43 H50 N5 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

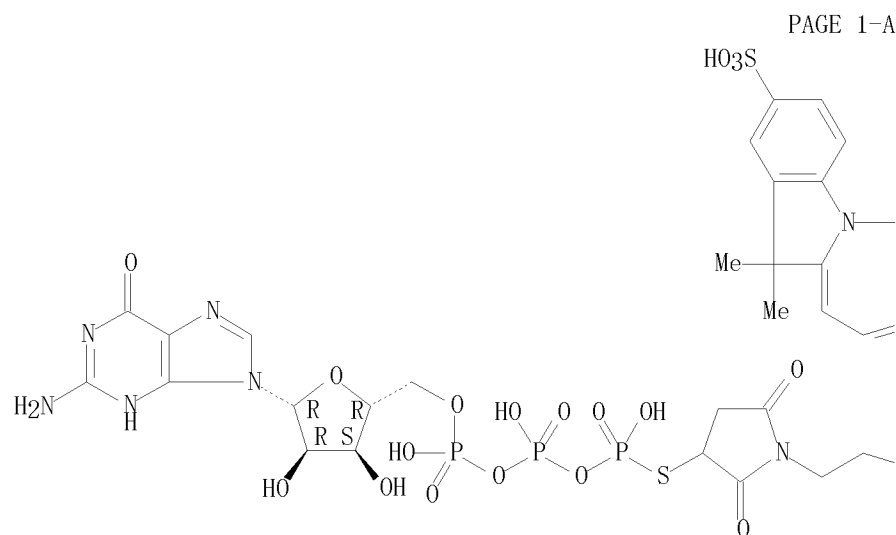


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

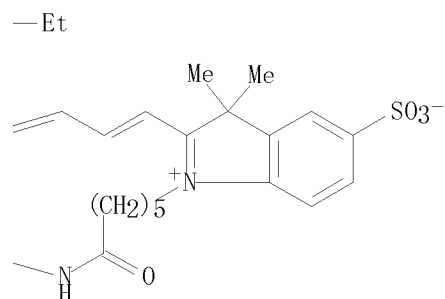
REFERENCE 1: 145:392008

L3 ANSWER 9 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 848301-88-2 REGISTRY
 ED Entered STN: 12 Apr 2005
 CN Guanosine 5'-(trihydrogen diphosphate), P'-anhydride with
 S-[1-[2-[[6-[2-[5-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl] dihydrogen
 phosphorothioate (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C49 H62 N9 O22 P3 S3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.
 Double bond geometry unknown.



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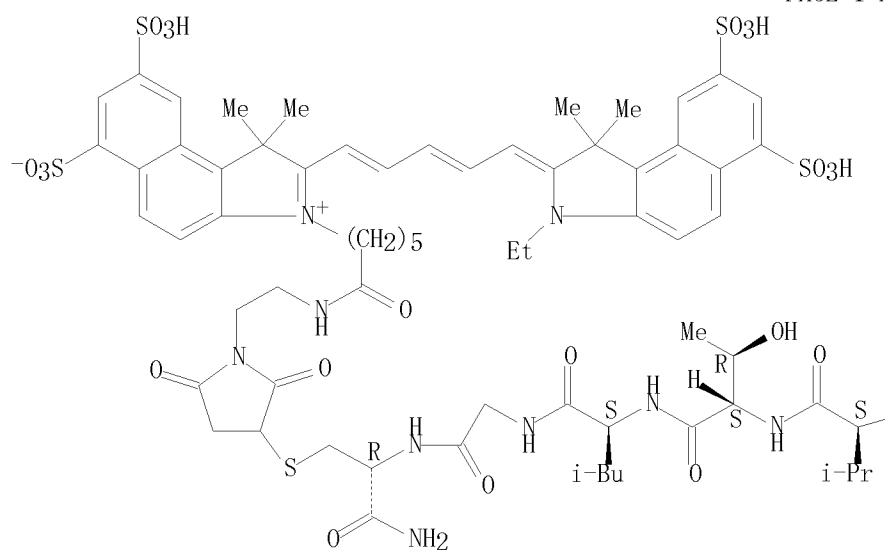
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:330269

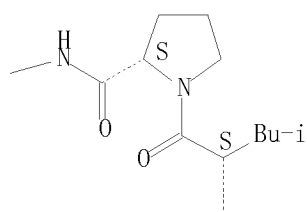
L3 ANSWER 10 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 795315-59-2 REGISTRY
 ED Entered STN: 09 Dec 2004
 CN L-Cysteinamide, glycyl-L-seryl-L-methionyl-L-leucyl-L-prolyl-L-valyl-L-threonyl-L-leucylglycyl-S-[1-[2-[[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadienyl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)
 FS PROTEIN SEQUENCE: STEREOSEARCH
 MF C88 H123 N15 O27 S6
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.
 Double bond geometry unknown.

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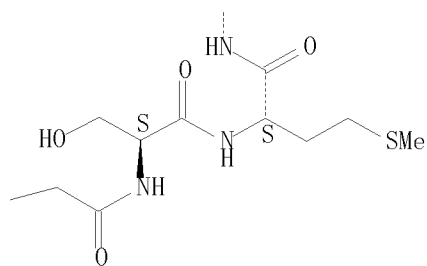
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

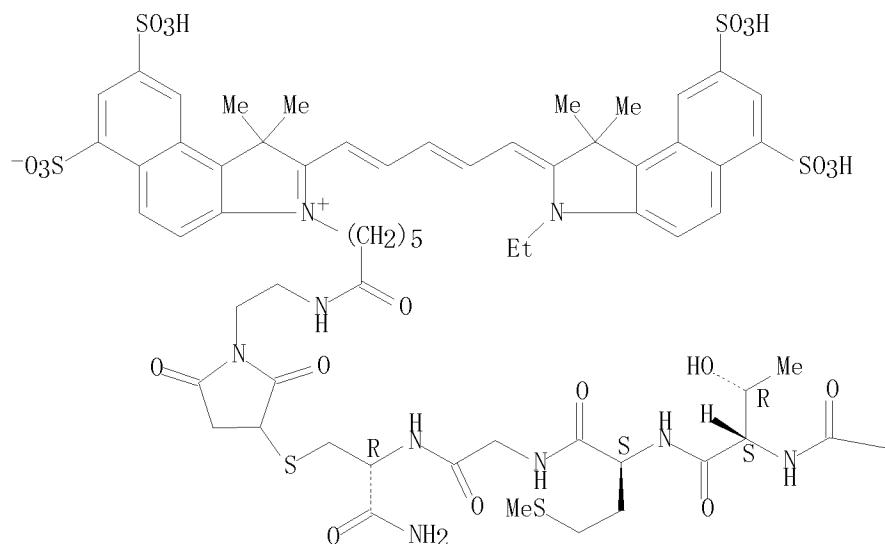
REFERENCE 1: 141:421859

L3 ANSWER 11 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 795315-58-1 REGISTRY
 ED Entered STN: 09 Dec 2004
 CN L-Cysteinamide, N-[[2-[2-[3-[[5-carboxy-1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-chloro-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-3H-indolium-5-yl]carbonyl]glycyl-L-valyl-L-prolyl-L-leucyl-L-seryl-L-leucyl-L-threonyl-L-methionylglycyl-S-[1-[2-[[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadienyl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indol-1-yl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, bis(inner salt) (9CI) (CA INDEX NAME)
 FS PROTEIN SEQUENCE; STEREOSEARCH
 MF C128 H168 Cl N17 O36 S8
 SR CA
 LC STN Files: CA, CAPLUS

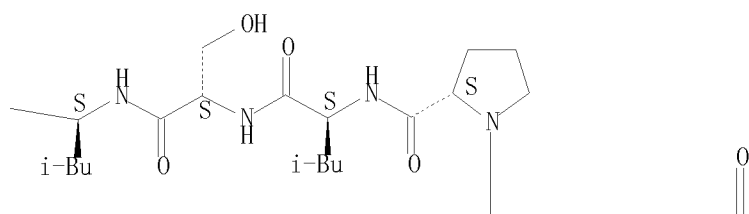
RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.
 Double bond geometry unknown.

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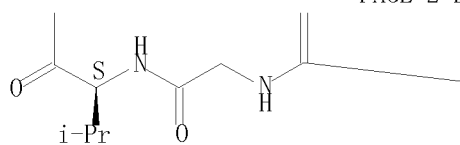


PAGE 1-C

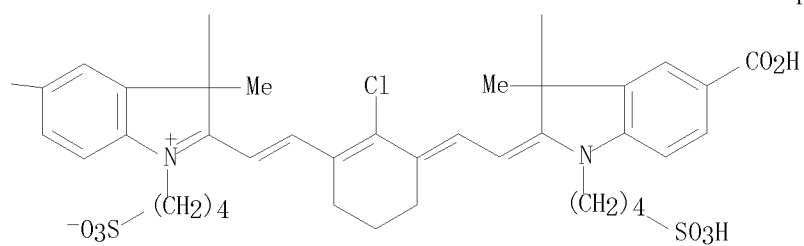
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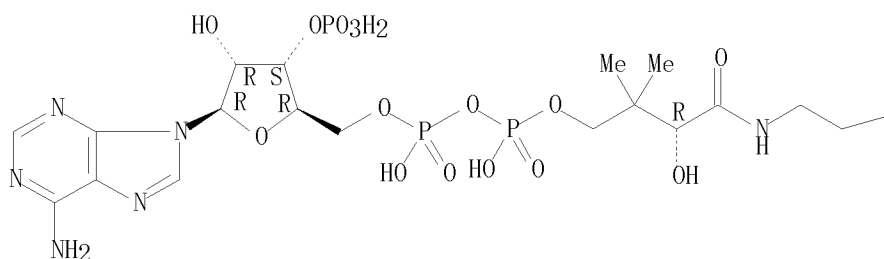
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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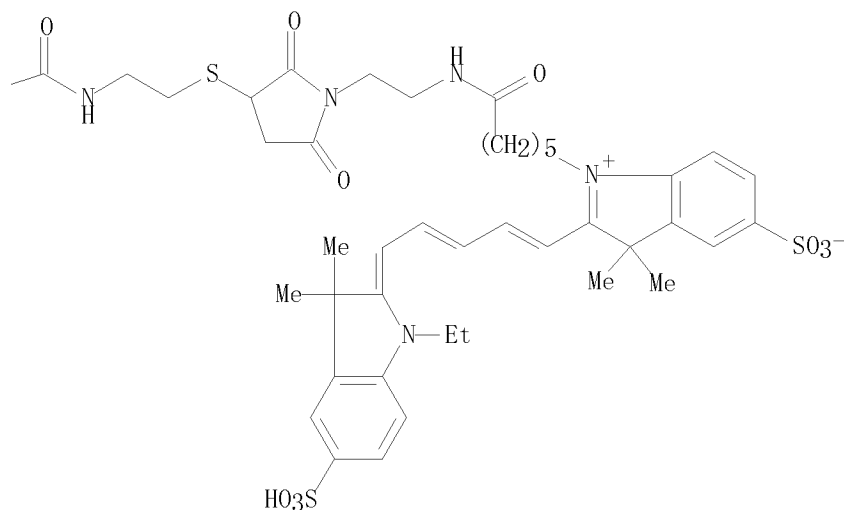
L3 ANSWER 12 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 756898-10-9 REGISTRY
 ED Entered STN: 05 Oct 2004
 CN Coenzyme A, S-[1-[2-[[6-[2-[5-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 DR 801306-66-1
 MF C60 H82 N11 O25 P3 S3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.
 Double bond geometry unknown.

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

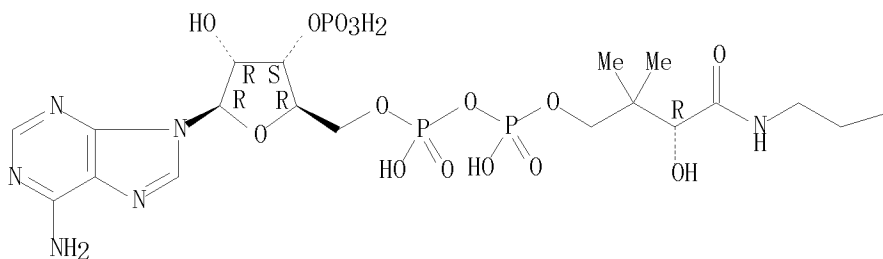
3 REFERENCES IN FILE CA (1907 TO DATE)
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 REFERENCE 2: 142:19000
 REFERENCE 3: 141:256678

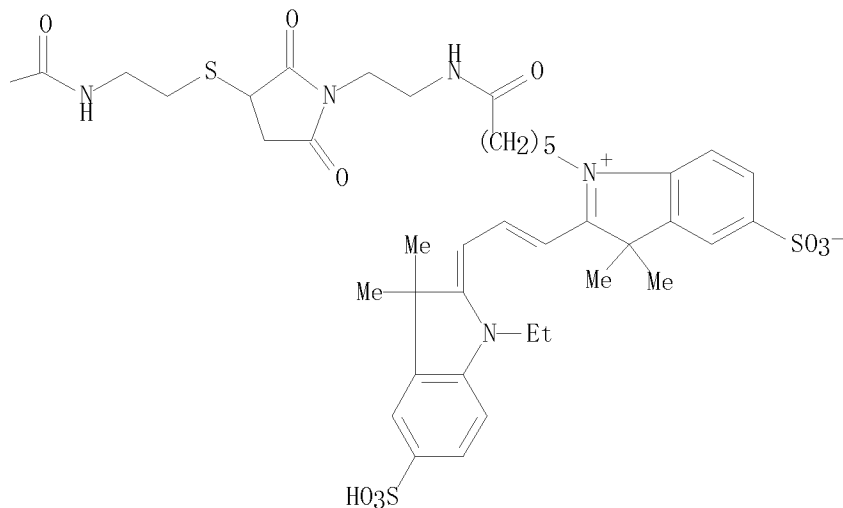
L3 ANSWER 13 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 756898-09-6 REGISTRY
 ED Entered STN: 05 Oct 2004
 CN Coenzyme A, S-[1-[2-[[6-[2-[3-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1-propenyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 DR 801306-65-0
 MF C58 H80 N11 O25 P3 S3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.
 Double bond geometry unknown.

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:382041
 REFERENCE 2: 142:19000
 REFERENCE 3: 141:256678

L3 ANSWER 14 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN

RN 644979-01-1 REGISTRY

ED Entered STN: 02 Feb 2004

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-1,3,3-trimethyl-5-sulfo-, inner salt (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propenyl]-1,3,3-trimethyl-5-sulfo-, inner salt (9CI)

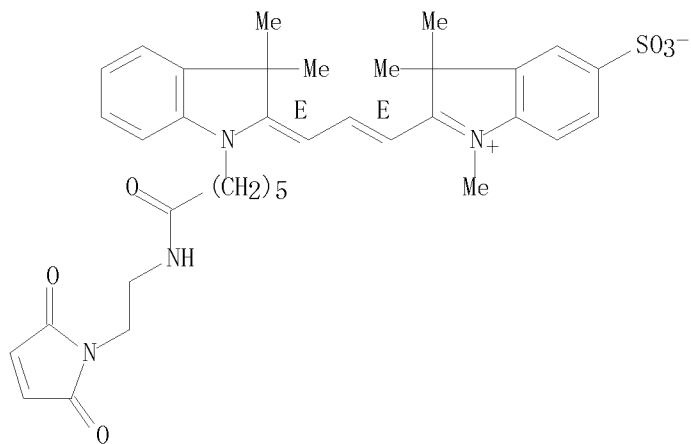
FS STEREOSEARCH

MF C36 H42 N4 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.



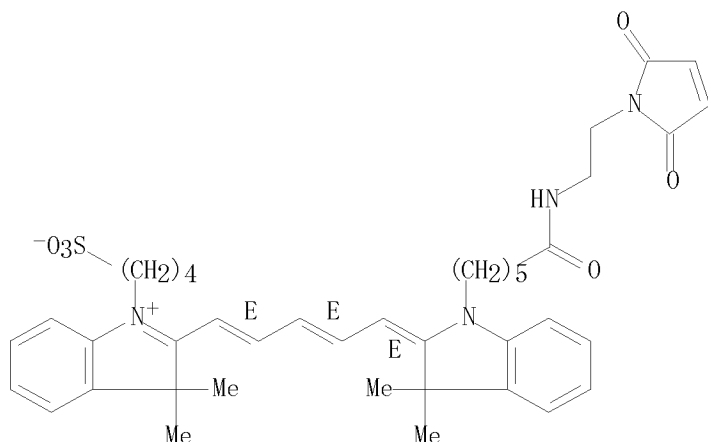
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 15 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 644979-00-0 REGISTRY
 ED Entered STN: 02 Feb 2004
 CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (9CI)
 FS STEREOSEARCH
 MF C41 H50 N4 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

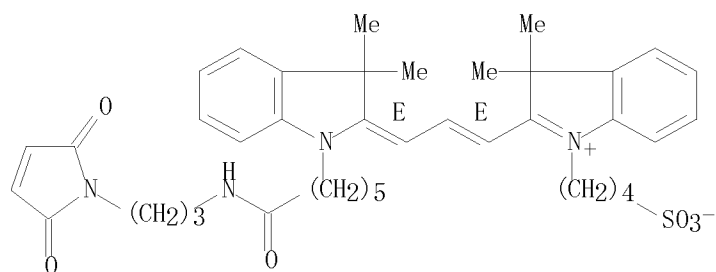


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 16 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 644978-99-4 REGISTRY
 ED Entered STN: 02 Feb 2004
 CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (9CI)
 FS STEREOSEARCH
 MF C40 H50 N4 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

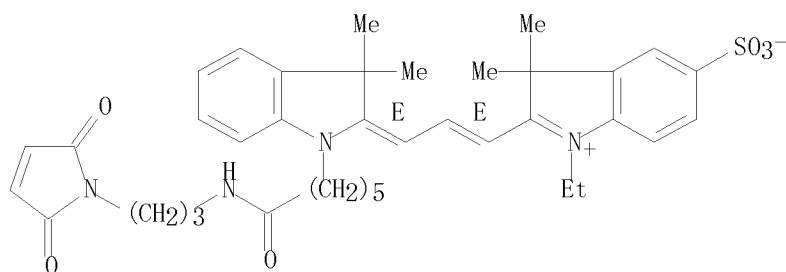


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 17 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 644978-98-3 REGISTRY
 ED Entered STN: 02 Feb 2004
 CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propenyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI)
 FS STEREOSEARCH
 MF C38 H46 N4 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

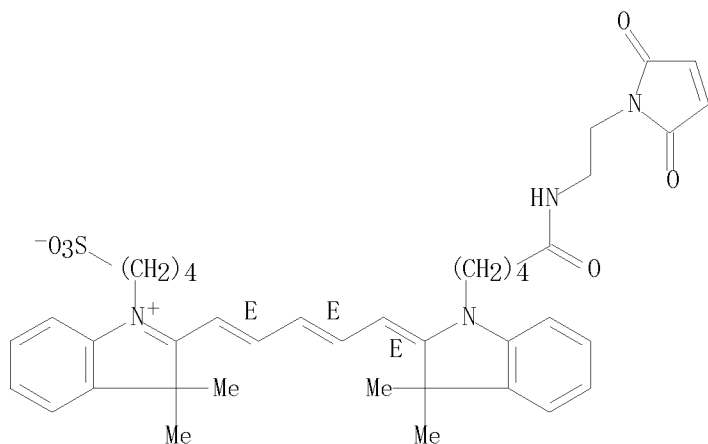


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 18 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
RN 644978-97-2 REGISTRY
ED Entered STN: 02 Feb 2004
CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[5-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-5-oxopentyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[5-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-5-oxopentyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (9CI)
FS STEREOSEARCH
MF C40 H48 N4 O6 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

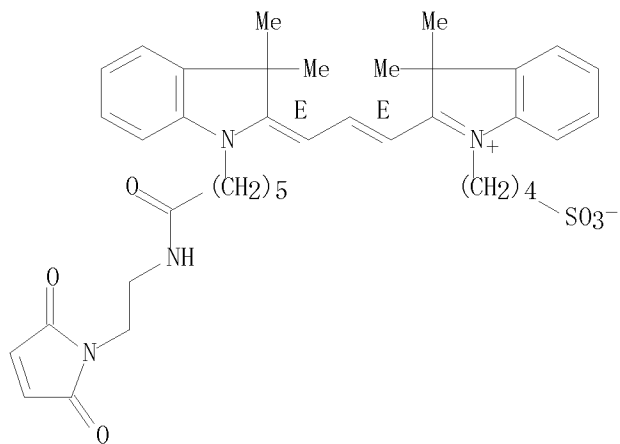


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 19 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 644978-96-1 REGISTRY
 ED Entered STN: 02 Feb 2004
 CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (9CI)
 FS STEREOSEARCH
 MF C39 H48 N4 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

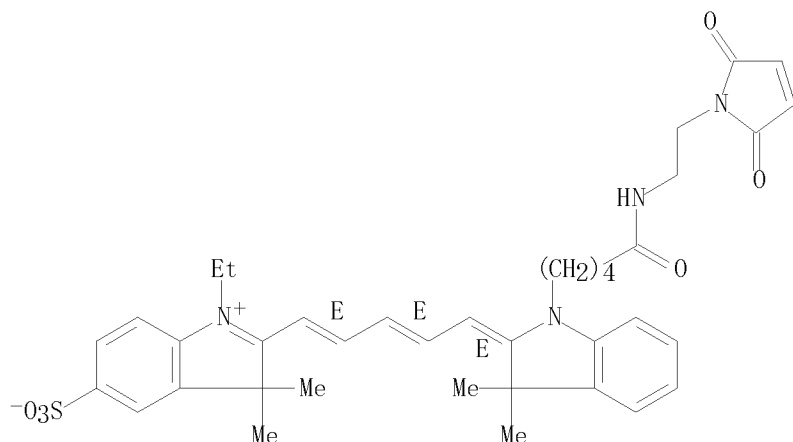


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 20 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
RN 644978-95-0 REGISTRY
ED Entered STN: 02 Feb 2004
CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[5-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-5-oxopentyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[5-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-5-oxopentyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI)
FS STEREOSEARCH
MF C38 H44 N4 O6 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

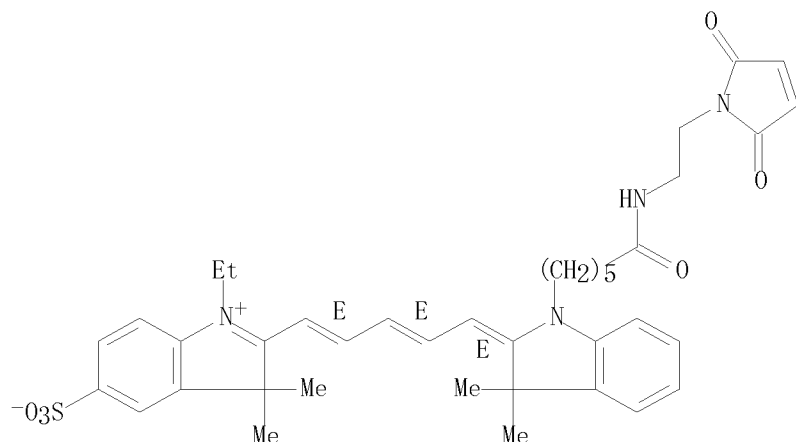


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 21 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 644978-94-9 REGISTRY
 ED Entered STN: 02 Feb 2004
 CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI)
 FS STEREOSEARCH
 MF C39 H46 N4 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 22 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN

RN 644978-93-8 REGISTRY

ED Entered STN: 02 Feb 2004

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-1-propyl-5-sulfo-, inner salt (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propenyl]-3,3-dimethyl-1-propyl-5-sulfo-, inner salt (9CI)

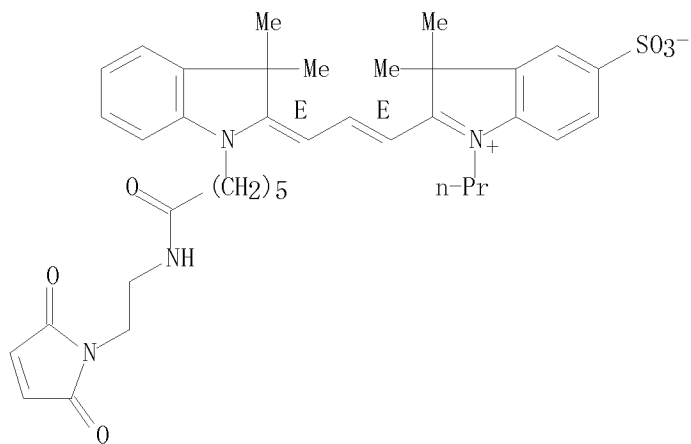
FS STEREOSEARCH

MF C38 H46 N4 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.



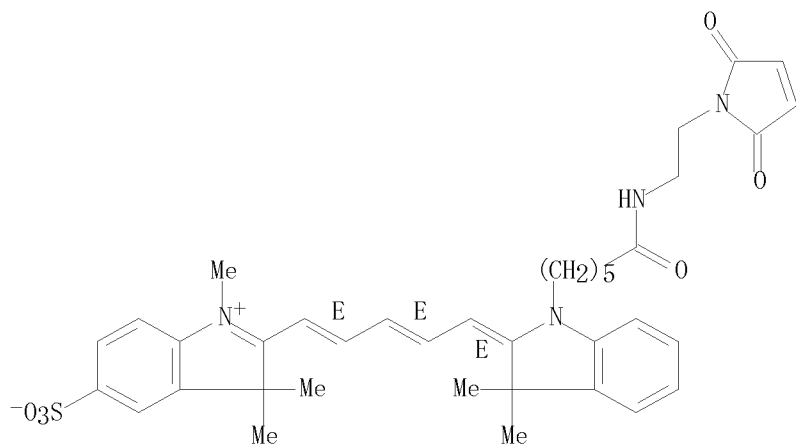
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:90327

L3 ANSWER 23 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 644978-92-7 REGISTRY
 ED Entered STN: 02 Feb 2004
 CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1,3,3-trimethyl-5-sulfo-, inner salt (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadienyl]-1,3,3-trimethyl-5-sulfo-, inner salt (9CI)
 FS STEREOSEARCH
 MF C38 H44 N4 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.



2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:34835

REFERENCE 2: 140:90327

L3 ANSWER 24 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN

RN 644978-91-6 REGISTRY

ED Entered STN: 02 Feb 2004

CN 3H-Indolium, 2-[(1E,3E)-3-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3H-Indolium, 2-[(1E,3E)-3-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propenyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI)

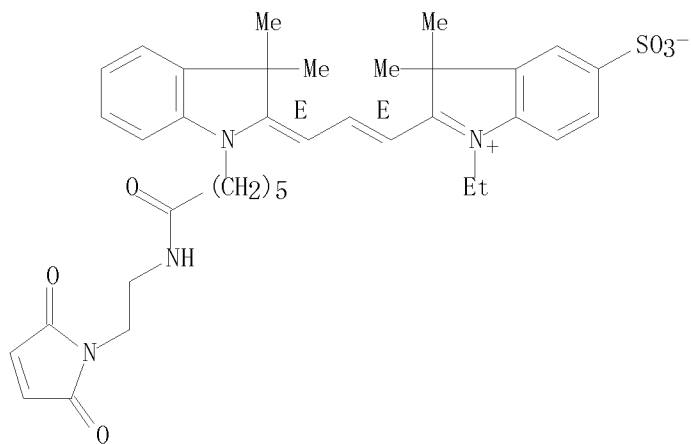
FS STEREOSEARCH

MF C37 H44 N4 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.



2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:34835

REFERENCE 2: 140:90327

L3 ANSWER 25 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN

RN 616207-80-8 REGISTRY

ED Entered STN: 13 Nov 2003

CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propenyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI)

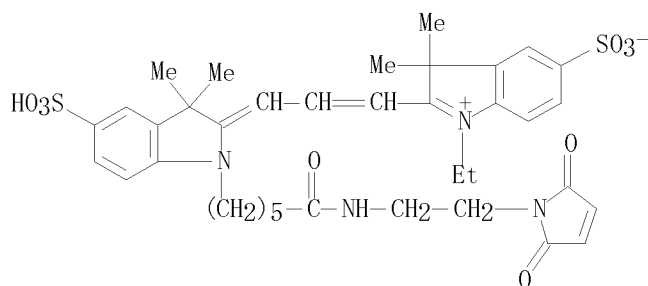
OTHER NAMES:

CN Cy3 Maleimide

MF C37 H44 N4 O9 S2

SR CA

LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



13 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 150:17227

REFERENCE 2: 149:4549

REFERENCE 3: 148:373658

REFERENCE 4: 147:359757

REFERENCE 5: 146:312090

REFERENCE 6: 145:371937

REFERENCE 7: 145:119607

REFERENCE 8: 144:116713

REFERENCE 9: 144:57536

REFERENCE 10: 142:19000

L3 ANSWER 26 OF 26 REGISTRY COPYRIGHT 2009 ACS on STN

RN 416853-49-1 REGISTRY

ED Entered STN: 16 May 2002

CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

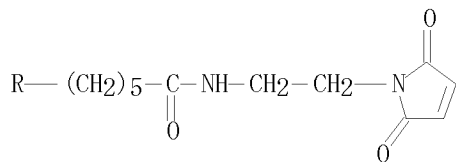
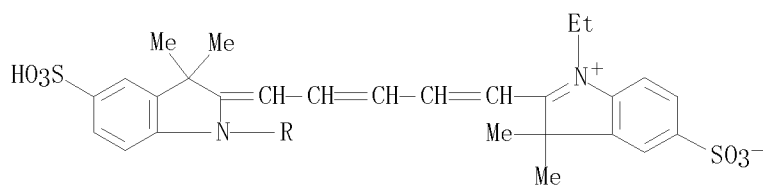
OTHER CA INDEX NAMES:

CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadienyl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (9CI)

MF C39 H46 N4 O9 S2

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:19000

REFERENCE 2: 141:256678

REFERENCE 3: 136:337160

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FILE LAST UPDATED: 7 Jan 2009 (20090107/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

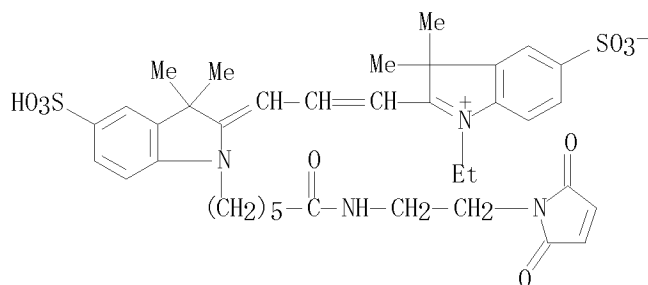
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<http://www.cas.org/legal/infopolicy.html>
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=> s l3
L4 25 L3

=> d 1-25 bib abs hitstr

L4 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2008:1343832 CAPLUS
 DN 150:17227
 TI LCP-FRAP Assay for Pre-Screening Membrane Proteins for In Meso Crystallization
 AU Cherezov, Vadim; Liu, Jeffrey; Griffith, Mark; Hanson, Michael A.; Stevens, Raymond C.
 CS Department of Molecular Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
 SO Crystal Growth & Design (2008), 8(12), 4307-4315
 CODEN: CGDEFU; ISSN: 1528-7483
 PB American Chemical Society
 DT Journal
 LA English
 AB Fluorescence recovery after photobleaching was used to study the diffusion of two integral membrane proteins, bacteriorhodopsin and beta2-adrenergic receptor, in lipidic cubic phase (LCP). The authors found that the diffusion properties within the LCP matrix strongly depend on the protein construct and applied screening conditions. Common precipitants often induce restriction on diffusion of proteins in LCP and thereby impede their chances for crystallization. A high protein mobile fraction and a fast diffusion rate correlate well with known crystallization conditions. Using this knowledge, one can now prescreen precipitant conditions with microgram quantities of material to rule out conditions that are not conducive to diffusion, nucleation, and crystal growth. The results of this assay will narrow membrane protein crystallization space by identifying suitable protein constructs, stabilizing compds. and precipitant conditions amenable to in meso crystallization. Crystallization prescreening will significantly increase the chances of obtaining initial crystal hits, expediting efforts in generating high-resolution structures of challenging membrane protein targets.
 IT 616207-80-8
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (lipidic cubic phase-fluorescence recovery after photobleaching assay for pre-screening membrane proteins for in meso crystallization)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

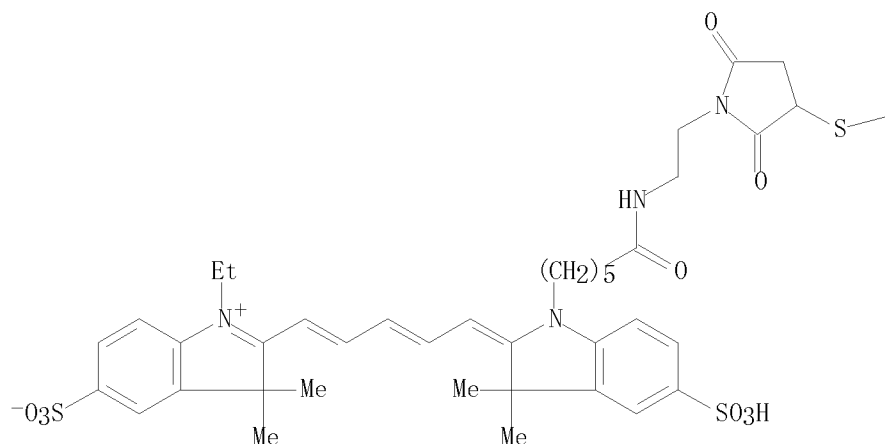


RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

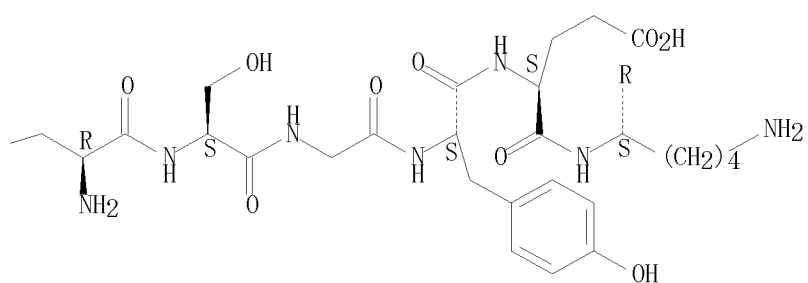
L4 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2008:1150206 CAPLUS
 DN 149:464926
 TI Modified Peptides as Potent Inhibitors of the Postsynaptic
 Density-95/N-Methyl-D-Aspartate Receptor Interaction
 AU Bach, Anders; Chi, Celestine N.; Olsen, Thomas B.; Pedersen, Soren W.;
 Roder, Martin U.; Pang, Gar F.; Clausen, Rasmus P.; Jemth, Per;
 Stromgaard, Kristian
 CS Department of Medicinal Chemistry, The Faculty of Pharmaceutical Sciences,
 University of Copenhagen, Copenhagen, DK-2100, Den.
 SO Journal of Medicinal Chemistry (2008), 51(20), 6450-6459
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 AB The protein-protein interaction between the NMDA receptor and its
 intracellular scaffolding protein, PSD-95, is a potential target for
 treatment of ischemic brain diseases. An undecapeptide corresponding to
 the C-terminal of the NMDA was used as a template for finding lead
 candidates for the inhibition of the PSD-95/NMDA receptor interaction.
 Initially, truncation and alanine scan studies were carried out, which
 resulted in a pentapeptide with wild-type affinity, as examined in a
 fluorescence polarization assay. Further examination was performed by
 systematic substitutions with natural and unnatural amino acids, which
 disclosed a tripeptide with micromolar affinity and N-methylated
 tetrapeptides with improved affinities. Mol. modeling studies guided
 further N-terminal modifications and introduction of a range of N-terminal
 substitutions dramatically improved affinity. The best compound,
 N-cyclohexylethyl-ETAV (56), demonstrated up to 19-fold lower K_i value (K_i
 = 0.94 and 0.45 μ M against PDZ1 and PDZ2 of PSD-95, resp.) compared to
 wild-type values, providing the most potent inhibitors of this interaction
 reported so far. These novel and potent inhibitors provide an important
 basis for development of small mol. inhibitors of the PSD-95/NMDA receptor
 interaction.
 IT 1071969-30-6P 1071969-32-8P
 RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of modified peptides for inhibition of postsynaptic
 d.-95/N-Me-D-aspartate receptor interaction)
 RN 1071969-30-6 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.
 Double bond geometry unknown.

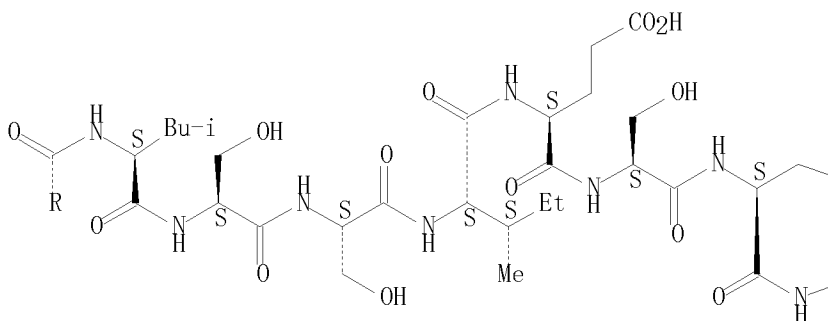
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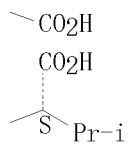
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PAGE 2-A



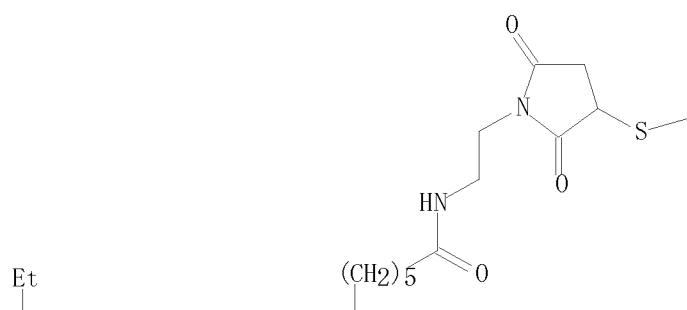
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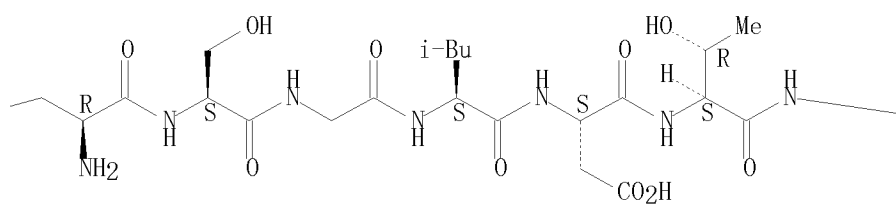
RN 1071969-32-8 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



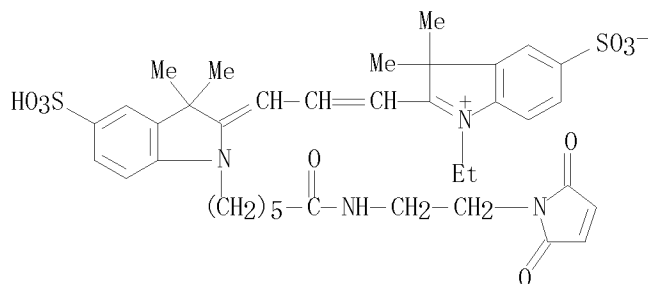
PAGE 1-B



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RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2008:480760 CAPLUS
 DN 149:4549
 TI Measurement of Protein Sulfhydryls in Response to Cellular Oxidative Stress Using Gel Electrophoresis and Multiplexed Fluorescent Imaging Analysis
 AU Spiess, Page C.; Morin, Dexter; Jewell, William T.; Buckpitt, Alan R.
 CS Department of Molecular Biosciences, School of Veterinary Medicine, University of California, Davis, CA, USA
 SO Chemical Research in Toxicology (2008), 21(5), 1074-1085
 CODEN: CRTOEC; ISSN: 0893-228X
 PB American Chemical Society
 DT Journal
 LA English
 AB The significance of free radicals in biol. has been established by numerous investigations spanning a period of over 40 years. Whereas there are many intracellular targets for these radical species, the importance of cysteine thiol posttranslational modification has received considerable attention. The current studies present a highly sensitive method for measurement of the posttranslational modification of protein thiols. This method is based on labeling of proteins with monofunctional maleimide dyes followed by 2D gel electrophoresis to sep. proteins and multiplexed fluorescent imaging anal. The method correctly interrogates the thiol/disulfide ratio present in com. available proteins. Exposure of pulmonary airway epithelial cells to high concns. of menadione or t-Bu hydroperoxide resulted in the modification of cysteines in more than 141 proteins of which 60 were subsequently identified by MALDI-TOF/TOF MS. Although some proteins were modified similarly by these two oxidants, several showed detectably different maleimide ratios in response to these two agents. Proteins that were modified by one or both oxidants include those involved in transcription, protein synthesis and folding, and cell death/growth. In conclusion, these studies provide a novel procedure for measuring the redox status of cysteine thiols on individual proteins with a clearly demonstrated applicability to interactions of chems. with pulmonary epithelial cells.
 IT 616207-80-8
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Cy3 maleimide; measurement of protein sulfhydryls in response to cellular oxidative stress using gel electrophoresis and multiplexed fluorescent imaging anal.)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2008:378147 CAPLUS
 DN 148:373658
 TI Selective fluorescent labeling of S-nitrosothiols (S-FLOS): a novel method
 for studying S-nitrosylation
 IN Cole, Robert N.; Berkowitz, Dan E.; Santhanam, Lakshmi; Shoukas, Artin
 Andrew
 PA Johns Hopkins University, USA
 SO PCT Int. Appl., 32pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008036328	A2	20080327	WO 2007-US20328	20070920
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRAI US 2006-845944P P 20060920

AB A method and kit are described for selectively labeling S-nitrosylated cysteines in proteins with a fluorescent tag. The method offers femtomolar sensitivity for the detection, quantification, in situ visualization, and a means for site-specific identification of S-nitrosylation events. Proteins were incubated with 20 mM Me methanethiosulfonate at 50° to block free cysteines, reduced with buffer containing ascorbate, and labeled with Cy3- or Cy5-maleimide.

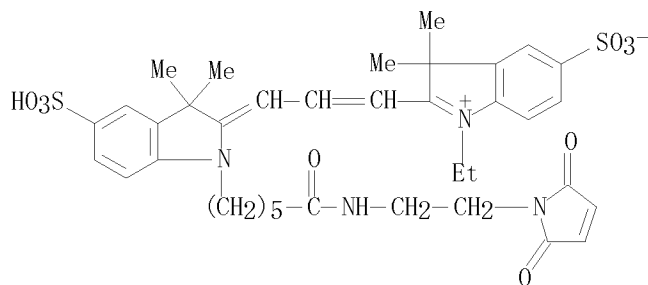
IT 616207-80-8

RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); RCT (Reactant); ANST (Analytical study); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

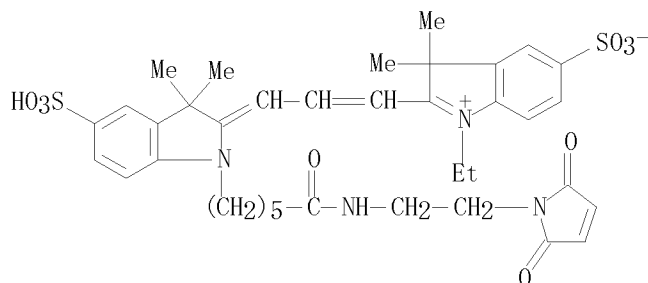
(Cy3 maleimide; selective fluorescent labeling of S-nitrosylated cysteines in proteins with fluorescent tags)

RN 616207-80-8 CAPLUS

CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



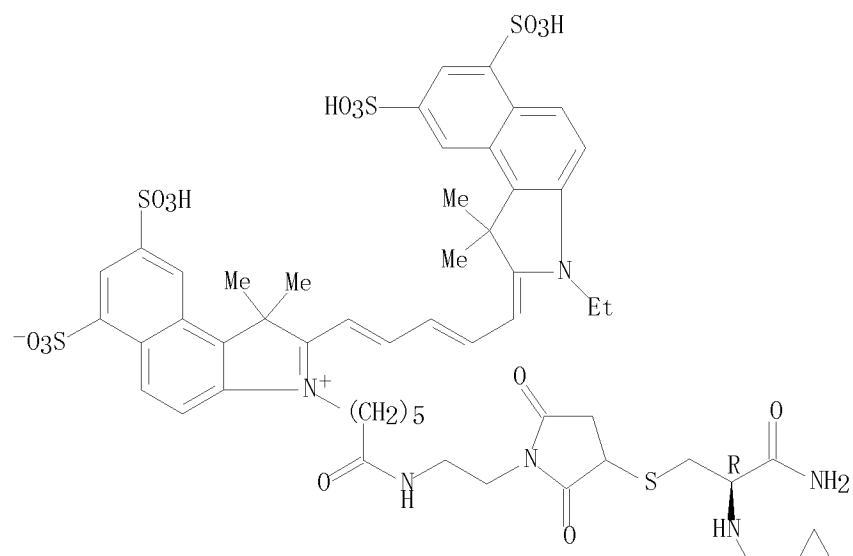
L4 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:805622 CAPLUS
 DN 147:359757
 TI Detection of Reactive Oxygen Species-sensitive Thiol Proteins by Redox
 Difference Gel Electrophoresis: implications for mitochondrial redox
 signaling
 AU Hurd, Thomas R.; Prime, Tracy A.; Harbour, Michael E.; Lilley, Kathryn S.;
 Murphy, Michael P.
 CS Medical Research Council Dunn Human Nutrition Unit, Cambridge, CB2 0XY, UK
 SO Journal of Biological Chemistry (2007), 282(30), 22040-22051
 CODEN: JBCHA3; ISSN: 0021-9258
 PB American Society for Biochemistry and Molecular Biology
 DT Journal
 LA English
 AB Reactive oxygen species (ROS) produced by the mitochondrial respiratory
 chain can be a redox signal, but whether they affect mitochondrial
 function is unclear. Here the authors show that low levels of ROS from
 the respiratory chain under physiol. conditions reversibly modify the
 thiol redox state of mitochondrial proteins involved in fatty acid and
 carbohydrate metabolism. As these thiol modifications were specific and
 occurred without bulk thiol changes, the authors first had to develop a
 sensitive technique to identify the small number of proteins modified by
 endogenous ROS. In this technique, redox difference gel electrophoresis,
 control, and redox-challenged samples are labeled with different
 thiol-reactive fluorescent tags and then separated on the same two-dimensional
 gel, enabling the sensitive detection of thiol redox modifications by
 changes in the relative fluorescence of the two tags within a single
 protein spot, followed by protein identification by mass spectrometry.
 Thiol redox modification affected enzyme activity, suggesting that the
 reversible modification of enzyme activity by ROS from the respiratory
 chain may be an important and unexplored mode of mitochondrial redox
 signaling.
 IT 616207-80-8
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST
 (Analytical study); BIOL (Biological study); USES (Uses)
 (Cy3 Maleimide, labeling; detection of reactive oxygen
 species-sensitive thiol proteins by redox difference gel
 electrophoresis and implications for mitochondrial redox signaling)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-
 yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-
 ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA
 INDEX NAME)



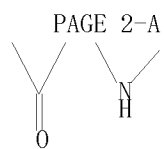
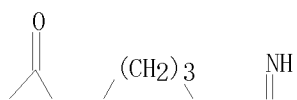
RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:520264 CAPLUS
 DN 147:186998
 TI In vivo monitoring the fate of Cy5.5-Tat labeled T lymphocytes by
 quantitative near-infrared fluorescence imaging during acute brain
 inflammation in a rat model of experimental autoimmune encephalomyelitis
 AU Berger, Cedric; Gremlich, Hans-Ulrich; Schmidt, Philipp; Cannel, Catherine; Kneuer, Rainer; Hiestand, Peter; Rausch, Martin; Rudin, Markus
 CS Novartis Institutes for Biomedical Research, Basel, Switz.
 SO Journal of Immunological Methods (2007), 323(1), 65-77
 CODEN: JIMMBG; ISSN: 0022-1759
 PB Elsevier B.V.
 DT Journal
 LA English
 AB T cells and macrophages directed against myelin proteins orchestrate the inflammation process in multiple sclerosis (MS) and exptl. autoimmune encephalomyelitis (EAE). So far, assessment of macrophages infiltration or structural alterations has been achieved by in vivo imaging. In this work, the authors show the infiltration of Cy5.5-labeled T lymphocytes into the brains of EAE rats by reflectance near-IR fluorescence imaging. T lymphocytes were labeled with Cy5.5-Tat and administered i.v. to naive or EAE animals. The highest fluorescence signal was observed for EAE animals, which received myelin-activated T cells during the acute phase of the disease. The temporal profile of fluorescence in this group paralleled the pattern of neurol. impairment during the acute phase, the remittance and first relapses of EAE. No disease specific fluorescence pattern was observed for EAE animals, which received naive T cells. However, uptake of Cy5.5-Tat by scavenger cells (e.g. macrophages) following death of labeled T cells in vivo prevents prolonged longitudinal studies. This work demonstrates that Cy5.5-Tat labeling of T cells is suitable for in vivo fluorescence imaging of inflammation initiation in the EAE model. This approach may particularly be useful for evaluation of novel anti-inflammatory therapies.
 IT 944336-77-0
 RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (near-IR fluorescence imaging of T-cell infiltration in multiple sclerosis model using Cy5.5-Tat)
 RN 944336-77-0 CAPLUS
 CN L-Cysteinamide, glycyl-L-arginyl-L-lysyl-L-lysyl-L-arginyl-L-arginyl-L-glutaminyl-L-arginyl-L-arginyl-L-arginylglycyl-S-[1-[2-[[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadien-1-yl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (CA INDEX NAME)
 Absolute stereochemistry.
 Double bond geometry unknown.

PAGE 1-A



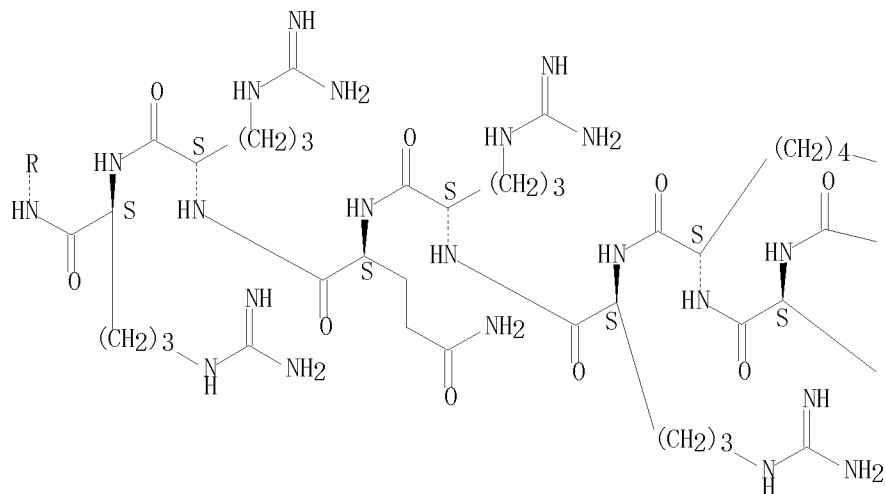
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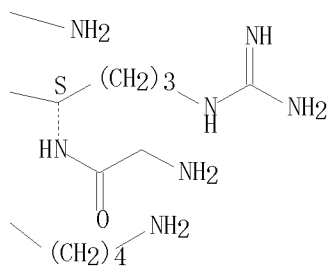
PAGE 2-B



PAGE 3-A



PAGE 3-B



RE. CNT 52

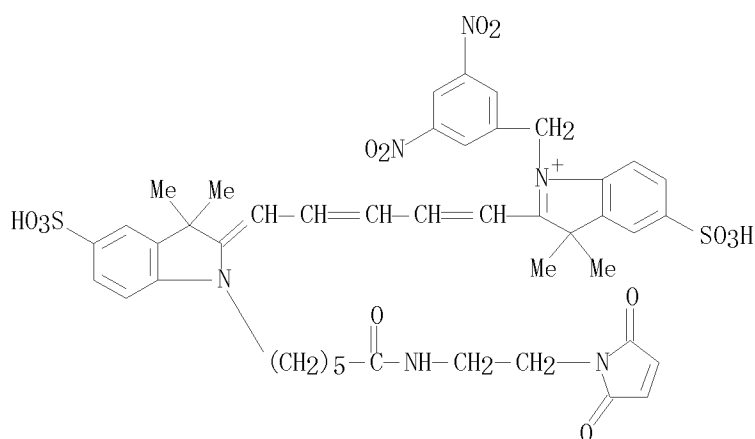
THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:347882 CAPLUS
 DN 147:253147
 TI Construction of Ni²⁺ ion responding type block coiled coil and application for new sensing material
 AU Kashiwada, Ayumi; Matsuda, Kiyomi
 CS Dep. of Production Engineering, Nihon Univ., Japan
 SO Nihon Daigaku Seisan Kogakubu Haiteku Risachi Senta Kenkyu Hokokusho (2006), Volume Date 2005 25-28
 CODEN: NDSKCG
 PB Nihon Daigaku Seisan Kogakubu Seisan Kogaku Kenkyusho
 DT Journal
 LA Japanese
 AB Hetero-block peptide α -helical coiled coil formation with Ni²⁺ ion and application of the block type complex sensing module were reported. Formations of coiled coil conformation of specific peptides (Pep3 and Pep4) with Ni²⁺ were speculated by CD spectra. Metal-binding affinity of the structure was found to be more specific to Ni²⁺ than Cu²⁺ and Zn²⁺. The Ni²⁺-sensing system using other peptides (Pep5 and Pep6) was applied to fabrication of sensing system using Cy3B-Cy5Q FRET anal. was also reported.
 IT 945985-10-4D, Cy 5Q, conjugates with peptides
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (Cy 5Q; construction of Ni²⁺ ion responding type block coiled coil and application for new sensing material)
 RN 945985-10-4 CAPLUS
 CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-[(3,5-dinitrophenyl)methyl]-3,3-dimethyl-5-sulfo-, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 945985-09-1

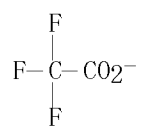
CMF C44 H47 N6 O13 S2



CM 2

CRN 14477-72-6

CMF C2 F3 O2



L4 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2007:195232 CAPLUS

DN 147:400216

TI Probing orientations of single fluorescent labels on a peptide reversibly binding to the human delta-opioid receptor

AU Tokimoto, Takahira; Bethea, Tomika R. C.; Zhou, Min; Ghosh, Indraneel; Wirth, Mary J.

CS Department of Chemistry, University of Arizona, Tucson, AZ, 85721, USA

SO Applied Spectroscopy (2007), 61(2), 130-137

CODEN: APSPA4; ISSN: 0003-7028

PB Society for Applied Spectroscopy

DT Journal

LA English

AB We report the first in-depth study of single-mol. polarization behavior of a species that is undergoing reversible binding with its biol. receptor. We examine the utility of the information in single-mol. polarization measurements for investigations of binding. The human δ -opioid receptor, which is a G protein-coupled receptor, was incorporated into a supported lipid bilayer. A Cy3 label was covalently attached by a hydrophilic linker to a peptide agonist, Deltorphin II (5,6 Ile-Ile). The fluorescence excitation was alternated between s- and p-polarization using a microscope having the capability of total internal reflectance fluorescence (TIRF) excitation. The polarization behavior reveals that nonspecific binding events for this system give emission that is mostly s-polarized, while binding to the receptor gives emission that has a strong component of p-polarization. The results show that a high signal-to-noise ratio is achievable with single-mol. polarization measurements. The experiment detected 37 binding events of short duration (<30 s) and 35 binding events of long duration (from 30 s to 500 s). The polarization studies indicate that the receptors in the bilayer do not freely rotationally diffuse in the plane of the bilayer when the peptide is bound. The system exhibits two types of polarization behavior. One type has the dye label with fixed orientation, which sometimes abruptly switches. The other type has the dye orientation continuously fluctuating over time, typically exhibiting occasional periods of fixed orientation. For a long binding event of fixed orientation, it is established through anal. of the variance that the orientation actually is fluctuating through a range of angles on the order of 6° . It is shown that precise measurements of reorientation are achievable, with a detection limit of 1.3° for a typical single-mol. signal.

IT 950890-22-9

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(orientations of single fluorescent labels on a peptide reversibly binding to the human delta-opioid receptor)

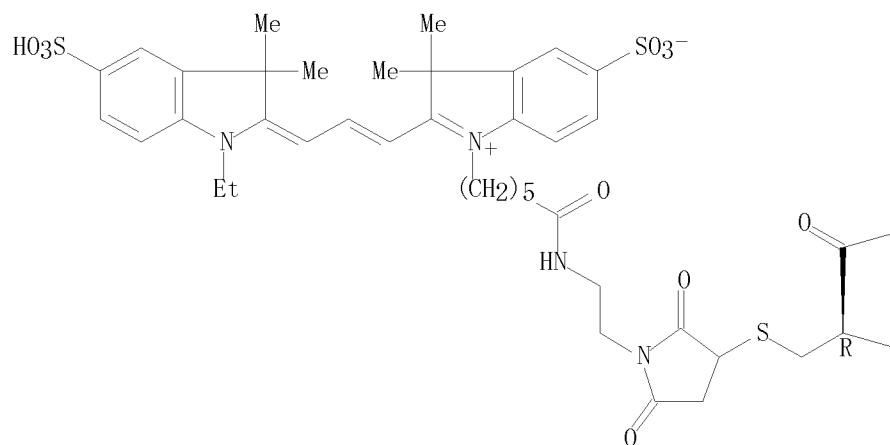
RN 950890-22-9 CAPLUS

CN Glycinamide, L-tyrosyl-D-alanyl-L-phenylalanyl-L- α -glutamyl-L-isoleucyl-L-isoleucylglycylglycyl-18-amino-5-oxo-3,9,12,15-tetraoxa-6-azaoctadecanoyl-S-[1-[2-[[6-[2-[3-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1-propen-1-yl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-, inner salt (CA INDEX NAME)

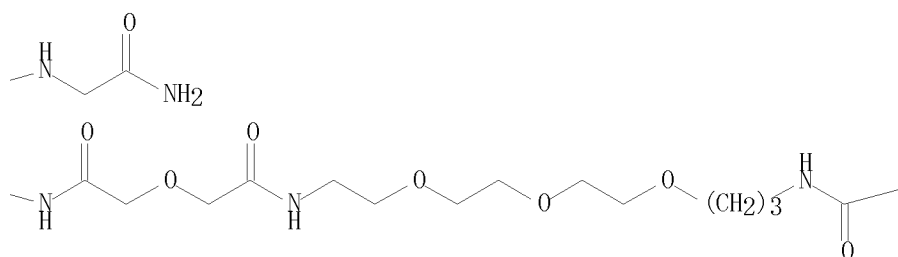
Absolute stereochemistry.

Double bond geometry unknown.

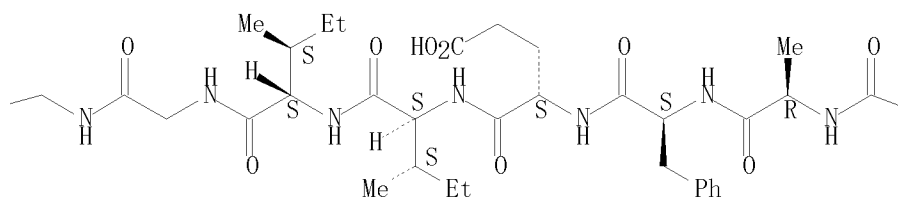
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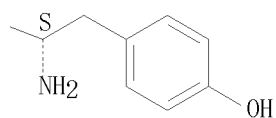
PAGE 1-B



PAGE 1-C

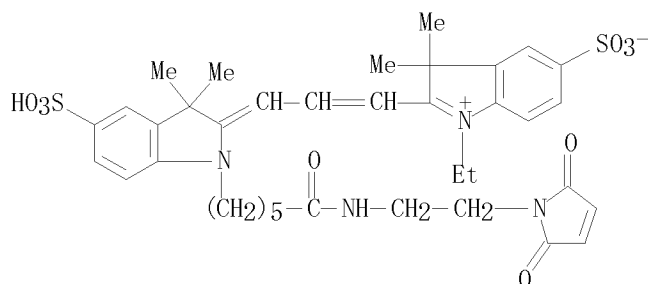


PAGE 1-D



RE. CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

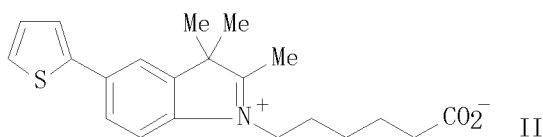
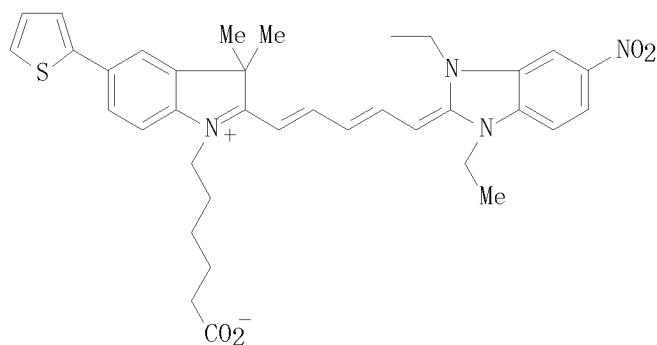
L4 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2007:51214 CAPLUS
 DN 146:312090
 TI Site-specific labeling of DNA-protein conjugates by means of expressed protein ligation
 AU Lovrinovic, Marina; Fruk, Ljiljana; Schroeder, Hendrik; Niemeyer, Christof M.
 CS Fachbereich Chemie, Biologisch-Chemische Mikrostrukturtechnik, Universitaet Dortmund, Dortmund, D-44227, Germany
 SO Chemical Communications (Cambridge, United Kingdom) (2007), (4), 353-355
 CODEN: CHCOFS; ISSN: 1359-7345
 PB Royal Society of Chemistry
 DT Journal
 LA English
 AB Site-specific bioconjugation of protein thioesters with a DNA oligonucleotide was achieved by Expressed Protein Ligation (EPL) and the new thiol group formed upon EPL in the conjugate was selectively coupled with small mol. labels using maleimide chemical
 IT 616207-80-8, Cy3 Maleimide
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Cy3 Maleimide; site-specific labeling of DNA-protein conjugates by means of expressed protein ligation)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

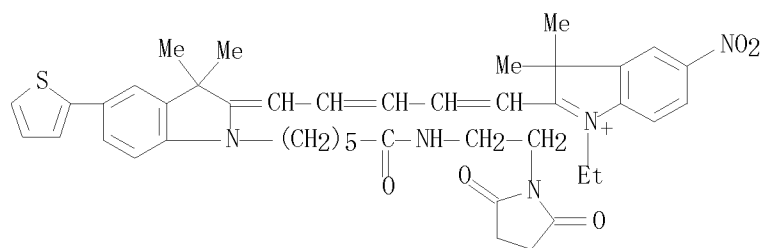
L4 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:1041247 CAPLUS
 DN 145:392008
 TI Chemically-reactive cyanine dyes and their applications as luminescence quenching compounds
 IN Diwu, Zhenjun; Zhang, Jianheng; Tang, Yi
 PA Anaspec, Inc., USA
 SO U.S. Pat. Appl. Publ., 40pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20060223076	A1	20061005	US 2005-222049	20050907
PRAI	US 2004-608817P	P	20040910		
OS	MARPAT 145:392008				
GI					

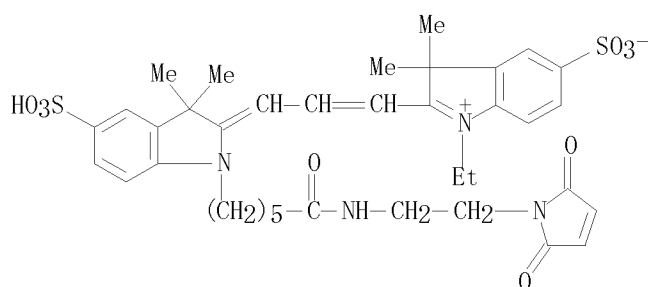


AB The quenching compds. of the invention are weakly luminescent cyanines that are substituted by one or more heteroarom. quenching moieties. The quenching compds. of the invention exhibit little or no observable luminescence and efficiently quench a broad spectrum of luminescent compds. The chemical reactive quenching compds. possess utility for labeling a wide variety of substances, including biomols. These labeled substances are highly useful for a variety of energy-transfer assays and applications. Reactive quenching cyanine dye I was prepared from II, malonaldehyde bis(phenylimine) monohydrochloride, and 1,3-diethyl-2-methylimidazolium iodide. The FRET peptide, compound I-Lys-Pro-Leu-Ala-Nva-Asp(Cy5)-Ala-Arg-NH₂, was incubated with solns. with or without matrix metalloproteinase 2 and the fluorescence signal was recorded on a fluorescence microplate reader at Ex/Em=650nm/670nm.

IT 911318-70-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (chemical-reactive cyanine dyes and their applications as luminescence quenching compds.)
 RN 911318-70-2 CAPLUS
 CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dioxo-1-pyrrolidinyl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-(2-thienyl)-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-nitro- (CA INDEX NAME)

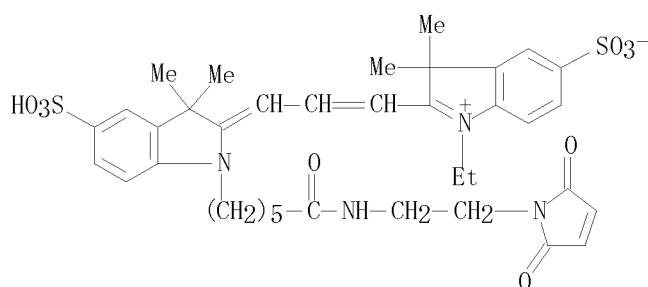


L4 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:799922 CAPLUS
 DN 145:371937
 TI Binding and signaling of surface-immobilized reagentless fluorescent biosensors derived from periplasmic binding proteins
 AU De Lorimier, Robert M.; Tian, Yaji; Hellinga, Homme W.
 CS Department of Biochemistry, Duke University Medical Center, Durham, NC, 27710, USA
 SO Protein Science (2006), 15(8), 1936-1944
 CODEN: PRCIEI; ISSN: 0961-8368
 PB Cold Spring Harbor Laboratory Press
 DT Journal
 LA English
 AB Development of biosensor devices typically requires incorporation of the mol. recognition element into a solid surface for interfacing with a signal detector. One approach is to immobilize the signal transducing protein directly on a solid surface. Here the authors compare the effects of two direct immobilization methods on ligand binding, kinetics, and signal transduction of reagentless fluorescent biosensors based on engineered periplasmic binding proteins. The authors used thermostable ribose and glucose binding proteins cloned from *Thermoanaerobacter tengcongensis* and *Thermotoga maritima*, resp. To test the behavior of these proteins in semispecifically oriented layers, the authors covalently modified lysine residues with biotin or sulfhydryl functions, and attached the conjugates to plastic surfaces derivatized with streptavidin or maleimide, resp. The immobilized proteins retained ligand binding and signal transduction but with adversely affected affinities and signal amplitudes for the thiolated, but not the biotinylated, proteins. The authors also immobilized these proteins in a more specifically oriented layer to maleimide-derivatized plates using a His2Cys2 zinc finger domain fused at either their N or C termini. Proteins immobilized this way either retained, or displayed enhanced, ligand affinity and signal amplitude. In all cases tested ligand binding by immobilized proteins is reversible, as demonstrated by several iterations of ligand loading and elution. The kinetics of ligand exchange with the immobilized proteins are on the order of seconds.
 IT 616207-80-8D, Cy3 Maleimide, ligand-binding protein conjugates
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (Cy3-maleimide; binding and signaling of surface-immobilized reagentless fluorescent biosensors derived from periplasmic binding proteins)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:458964 CAPLUS
 DN 145:119607
 TI Designer Variable Repeat Length Polypeptides as Scaffolds for Surface Immobilization of Quantum Dots
 AU Medintz, Igor L.; Sapsford, Kim E.; Clapp, Aaron R.; Pons, Thomas; Higashiya, Seiichiro; Welch, John T.; Mattoussi, Hedi
 CS Center for Bio/Molecular Science and Engineering, Code 6900, U.S. Naval Research Laboratory, Washington, DC, 20375, USA
 SO Journal of Physical Chemistry B (2006), 110(22), 10683-10690
 CODEN: JPCBFK; ISSN: 1520-6106
 PB American Chemical Society
 DT Journal
 LA English
 AB The authors demonstrate the use of a series of engineered, variable-length de novo polypeptides to discretely immobilize luminescent semiconductor nanocrystals or quantum dots (QDs) onto functional surfaces. The polypeptides express N-terminal dicysteine and C-terminal hexahistidine residues that flank a variable number (1, 3, 5, 7, 14, 21, 28, or 35) of core β -strand repeats, with tyrosine, glutamic acid, histidine, and lysine residues located at the turns. Polypeptides have mol. wts. ranging from 4 to 83 kDa and retain a rigid structure based on the antiparallel β -sheet motif. The authors first use a series of dye-labeled polypeptides to test and characterize their self-assembly onto hydrophilic CdSe-ZnS QDs using fluorescence resonance energy transfer (FRET). Results indicate that peptides maintain their β -sheet conformation after self-assembly onto the QD surfaces, regardless of their length. The authors then immobilize biotinylated derivs. of these polypeptides on a NeutrAvidin-functionalized substrate and use them to capture QDs via specific interactions between the peptides' polyhistidine residues and the nanocrystal surface. The authors found that each of the polypeptides was able to efficiently capture QDs, with a clear correlation between the d. of the surface-tethered peptide and the capacity for nanocrystal capture. The versatility of this capture strategy is highlighted by the creation of a variety of one- and two-dimensional polypeptide-QD structures as well as a self-assembled surface-immobilized FRET-based nutrient sensor.
 IT 616207-80-8D, Cy3 maleimide, maltose binding protein conjugates
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (designer variable repeat length polypeptides as scaffolds for surface immobilization of quantum dots and application to maltose FRET-based sensor)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



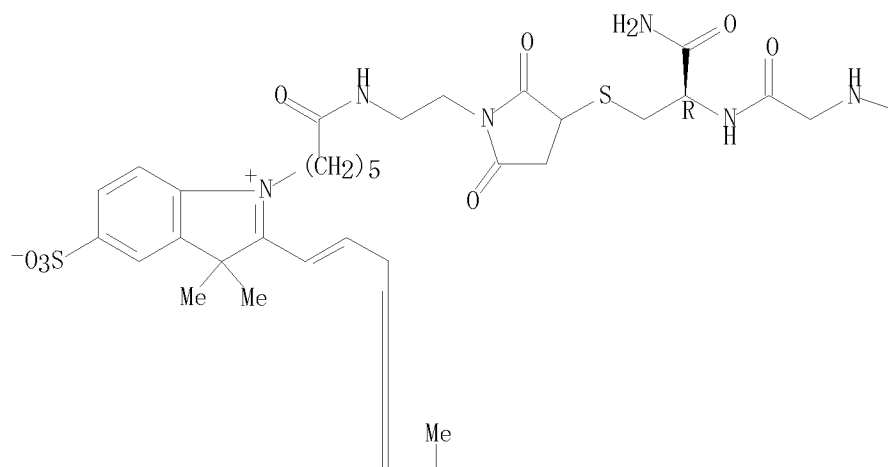
RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:401255 CAPLUS
 DN 146:137336
 TI Quantum-dot-based nanosensors designed for proteolytic monitoring
 AU Medintz, Igor L.; Clapp, Aaron R.; Brunel, Florence M.; Goldman, Ellen R.;
 Chang, Eddie L.; Dawson, Phillip E.; Mattoussi, Hedi
 CS US Naval Research Lab., Center for Bio/Molecular Science and Engineering,
 Washington, DC, 20375, USA
 SO Proceedings of SPIE-The International Society for Optical Engineering
 (2006), 6096(Colloidal Quantum Dots for Biomedical Applications),
 60960K/1-60960K/8
 CODEN: PSISDG; ISSN: 0277-786X
 PB SPIE-The International Society for Optical Engineering
 DT Journal
 LA English
 AB The authors have previously assembled QD-based fluorescence resonance
 energy transfer (FRET) sensors specific for the sugar nutrient maltose and
 the explosive TNT. These sensors utilize several inherent benefits of QDs
 as FRET donors. The authors show that QD-FRET based sensors can also
 function in the monitoring of proteolytic enzyme activity. The authors
 utilize a QD with multiple dye-labeled proteins attached to the surface as
 a substrate for a prototypical protease. The authors then demonstrate how
 this strategy can be extended to detect protease activity by utilizing a
 dye-labeled peptide attached to the QD as a proteolytic substrate.
 Self-assembly of the peptide-dye on the QD brings the dye in close
 proximity to the QD and result in efficient FRET. Addition of a proteolytic
 enzyme that specifically recognizes and cleaves the peptide alters the
 FRET signature of the sensor in a concentration-dependent manner. Both qual. and
 quant. data can be derived from these sensors. The potential benefits of
 this type of QD sensing strategy are discussed.
 IT 918959-25-8P
 RL: ARU (Analytical role, unclassified); BUU (Biological use,
 unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (quantum-dot-based fluorescence resonance energy transfer nanosensors
 designed for proteolytic enzyme monitoring)
 RN 918959-25-8 CAPLUS
 CN L-Cysteinamide, N-acetyl-L-histidyl-L-histidyl-L-histidyl-L-histidyl-L-
 histidyl-L-histidylglycyl-L-leucyl-2-methylalanyl-L-alanyl-L-
 alanyl-glycylglycyl-L-tryptophylglycyl-S-[1-[2-[[6-[2-[3-(1-ethyl-1,3-
 dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1-propen-1-yl]-3,3-
 dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-
 pyrrolidinyl]-, inner salt (CA INDEX NAME)

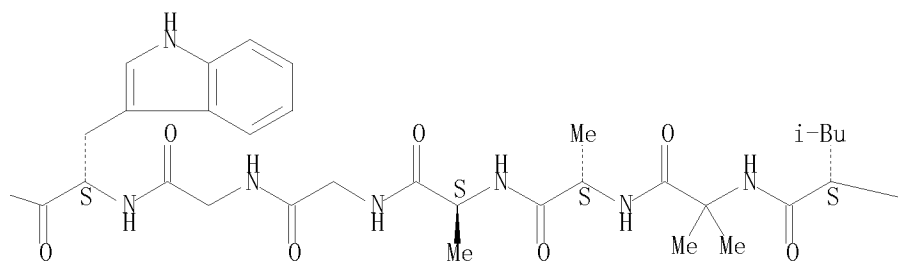
Absolute stereochemistry.

Double bond geometry unknown.

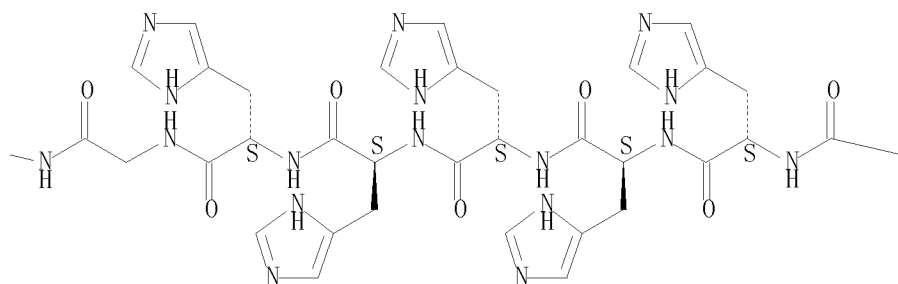
PAGE 1-A



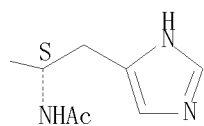
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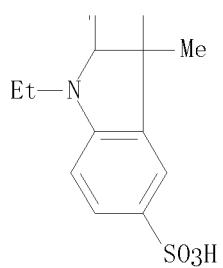
PAGE 1-C



PAGE 1-D



PAGE 2-A



RE. CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:1314108 CAPLUS

DN 144:57536

TI Unagglomerated core/shell nanocomposite particles for biomedical applications

IN Adair, James H.; Rouse, Sarah M.; Wang, Jun; Kester, Mark; Siedlecki, Christopher; White, William B.; Vogler, Erwin; Snyder, Alan; Pantano, Carlo G.; Sinoway, Lawrence; Luck, Jerry

PA The Penn State Research Foundation, USA; Ruiz-Velasco, Victor

SO PCT Int. Appl., 71 pp., which

CODEN: PIXXD2

DT Patent

LA English

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005118702	A2	20051215	WO 2005-US19239	20050601
	WO 2005118702	A3	20071115		
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	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, AP, EA, EP, OA			
	AU 2005250464	A1	20051215	AU 2005-250464	20050601
	CA 2569067	A1	20051215	CA 2005-2569067	20050601
	US 20050281884	A1	20051222	US 2005-142913	20050601
	EP 1773936	A2	20070418	EP 2005-804865	20050601
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU			
	JP 2008501509	T	20080124	JP 2007-515527	20050601
	IN 2006KN03632	A	20070615	IN 2006-KN3632	20061204
	KR 2007028478	A	20070312	KR 2006-727906	20061229
PRAI	US 2004-575887P	P	20040601		
	US 2004-579214P	P	20040614		
	WO 2005-US19239	W	20050601		

AB The present invention provides a method for the synthesis of unagglomerated, highly dispersed, stable core/shell nanocomposite particles comprised of preparing a reverse micelle microemulsion that contains nanocomposite particles, treating the microemulsion with a silane coupling agent, breaking the microemulsion to form a suspension of the nanocomposite particles by adding an acid/alc. solution to the microemulsion that maintains the suspension of nanocomposite particles at a pH of between about 6 and 7, and simultaneously washing and dispersing the suspension of nanocomposite particles, preferably with a size exclusion HPLC system modified to ensure unagglomeration of the nanocomposite particles. The primary particle size of the nanocomposite particles can range in diameter from between about 1 to 100 nm, preferably from between about 10 to 50 nm, more preferably about 10 to 20 nm, and most preferably about 20 nm. An example is given for synthesis and dispersion of Ag/SiO₂ nanocomposite particles using HPLC compared to four conventional techniques.

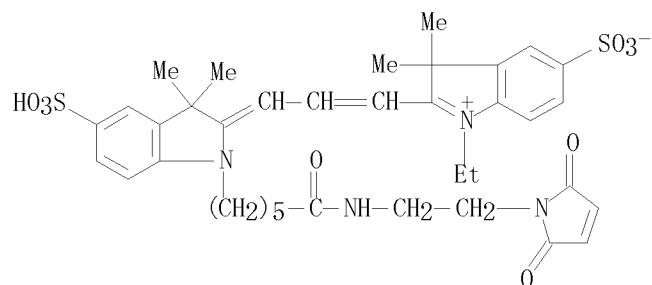
IT 616207-80-8, Cy3 Maleimide

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(unagglomerated core/shell nanocomposite particles for biomedical applications)

RN 616207-80-8 CAPLUS

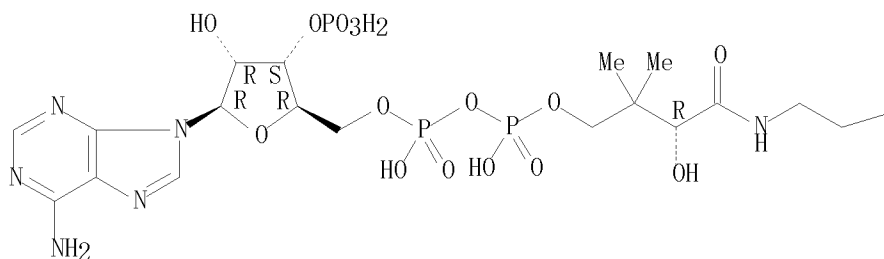
CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



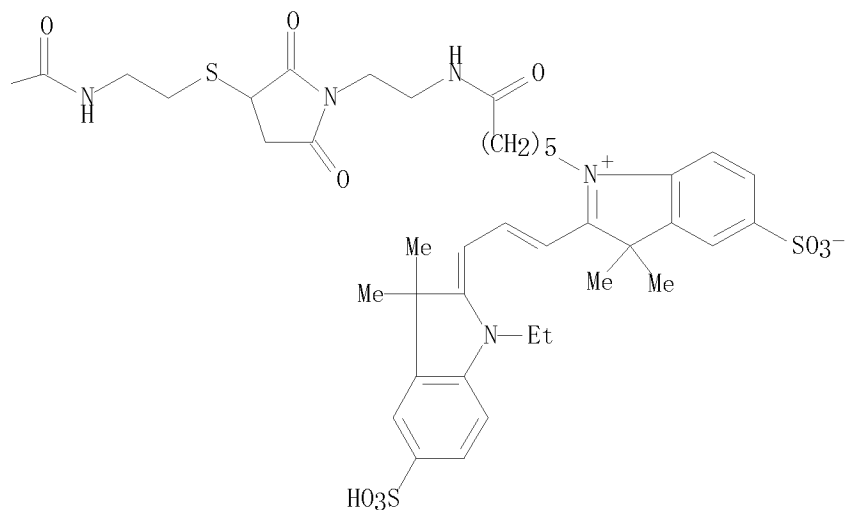
L4 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:921213 CAPLUS
 DN 143:382041
 TI Multicolor Imaging of Cell Surface Proteins
 AU Vivero-Pol, Laura; George, Nathalie; Krumm, Holger; Johnsson, Kai;
 Johnsson, Nils
 CS Institute of Chemical Sciences and Engineering, Ecole Polytechnique
 Federale de Lausanne (EPFL), Lausanne, CH-1015, Switz.
 SO Journal of the American Chemical Society (2005), 127(37), 12770-12771
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 143:382041
 AB The authors report on a method for the multicolor imaging of cell surface
 proteins which is based on the labeling of carrier protein (CP) fusion
 proteins with different fluorophores. In one application, different
 generations of a cell surface protein can be sequentially labeled to
 discriminate between old and newly made copies. In another application,
 fusions to different CPs can be selectively labeled with different
 fluorophores in one sample. Both applications open up new ways for
 studying the properties of cell surface proteins of living cells.
 IT 756898-09-6 756898-10-9
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (multicolor imaging of cell surface proteins using fluorophore-labeled
 carrier protein-containing fusion proteins)
 RN 756898-09-6 CAPLUS
 CN Coenzyme A, S-[1-[2-[[6-[2-[3-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-
 indol-2-ylidene)-1-propenyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-
 oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

PAGE 1-A



PAGE 1-B

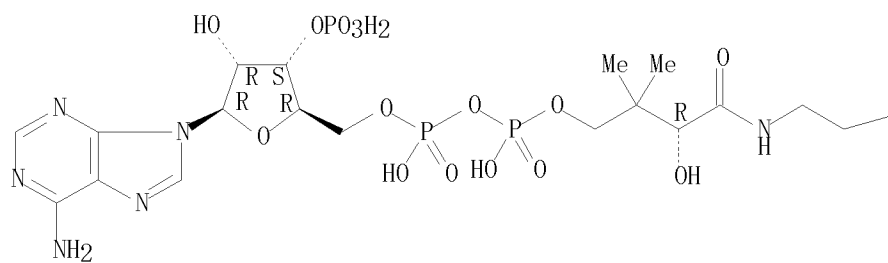


RN 756898-10-9 CAPLUS

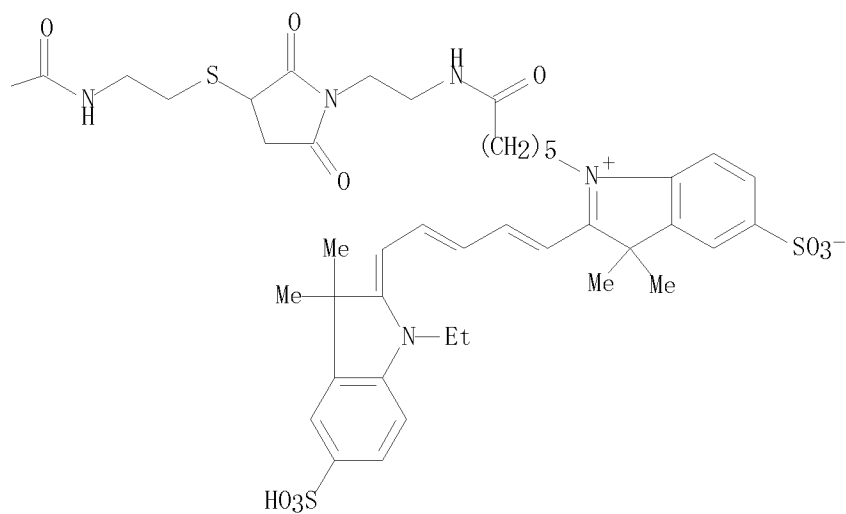
CN Coenzyme A, S-[1-[2-[[6-[2-[5-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A

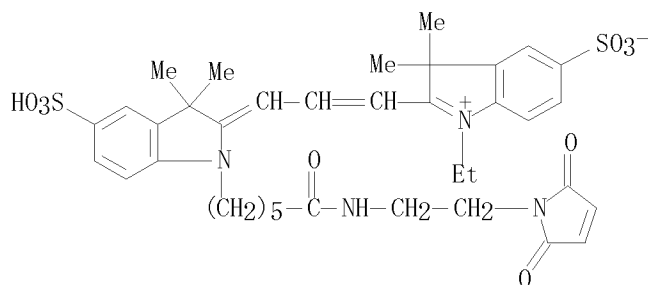


PAGE 1-B



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:452002 CAPLUS
 DN 144:116713
 TI Effect of bin time on the photon counting histogram for one-photon
 excitation
 AU Perroud, Thomas D.; Huang, Bo; Zare, Richard N.
 CS Department of Chemistry, Stanford University, Stanford, CA, 94305-5080,
 USA
 SO ChemPhysChem (2005), 6(5), 905-912
 CODEN: CPCHFT; ISSN: 1439-4235
 PB Wiley-VCH Verlag GmbH & Co. KGaA
 DT Journal
 LA English
 AB Photon counting histogram (PCH) model with the correction for 1-photon
 excitation is valid at multiple bin times. The fitted apparent brightness
 and concentration follow the 3-dimensional diffusion model. More importantly,
 the semi-empirical parameter, F, introduced in the PCH model for 1-photon
 excitation to correct for the non-Gaussian shape of the observation volume,
 shows small variations with different bin times. These variations are
 consistent with the phys. interpretation of F, and they do not affect the
 resolving power of the PCH model for 1-photon excitation. Based on these
 findings, the authors extend the time-independent PCH anal. to
 time-dependent photon counting multiple histograms (PCMH). This model
 considers the effect of bin time on the PCH parameters in a way that is
 similar to fluorescence intensity multiple distribution anal. (FIMDA).
 From the same set of data, PCMH exts. time-dependent parameters (diffusion
 time and triplet-state relaxation time) as well as time-independent
 parameters (true specific brightness and true average number of mols.). Given a
 3-4-fold exptl. difference in mol. brightness, PCMH can resolve each
 species in a 2-species sample and extract their resp. diffusion times even
 when fluorescence correlation spectroscopy cannot.
 IT 616207-80-8, Cy3 maleimide
 RL: PRP (Properties)
 (effect of bin time on photon counting histogram for one-photon
 excitation for)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-
 yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-
 ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA
 INDEX NAME)



RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:284030 CAPLUS

DN 142:330269

TI Assay solution compositions and methods in high throughput screening for effectors of G protein-coupled receptors

IN Fang, Ye; Ferrie, Ann M.; Hong, Yulong; Pai, Sadashiva K.; Peng, Jinlin; Webb, Brian L.

PA USA

SO U.S. Pat. Appl. Publ., 16 pp.

CODEN: USXXCO

DT Patent

LA English

FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050069953	A1	20050331	US 2003-676351	20030930
	US 20060148006	A1	20060706	US 2005-312776	20051221
PRAI	US 2003-676351	B1	20030930		

AB Buffered assay solns. for performing either binding or functional assays on arrays G protein-coupled receptors, and methods for their use are described. The standardized buffer solution can be used in high throughput screening of G protein-coupled receptor arrays for effector ligands. The buffered assay solution has an underlying composition having: a buffer reagent with a pH in the range of about 6.5 to about 7.9; an inorg. salt of a monovalent or divalent cation, at a concentration from about 1 mM to about 500 mM; and optionally a combination of: a blocker reagent at a concentration of about 0.01 weight % to about 2 weight % of the composition, or a protease-inhibitor at a concentration of about 0.001 mM to about 100 mM. In an embodiment for functional assay uses, the composition is modified to also include a GTP-analog, a GDP salt, and an anti-oxidant.

IT 848301-88-2D, analogs

RL: ARU (Analytical role, unclassified); ANST (Analytical study)

(in assay medium; assay solution compns. and methods in high throughput screening for effectors of G protein-coupled receptors)

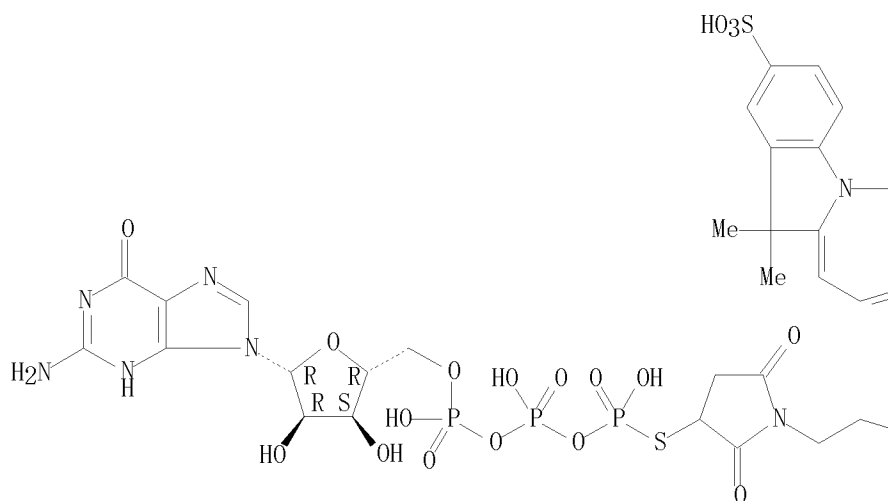
RN 848301-88-2 CAPLUS

CN Guanosine 5'-(trihydrogen diphosphate), P'-anhydride with S-[1-[2-[[6-[2-[5-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl] dihydrogen phosphorothioate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

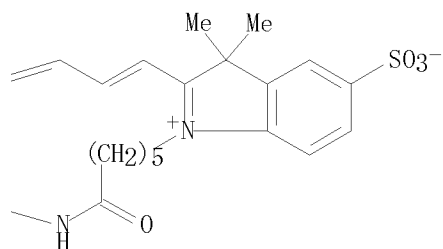
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B

—Et



L4 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:1059603 CAPLUS
 DN 142:34835
 TI Differential analysis of cell surface proteins on closed membrane
 structures by labelling with dyes in the presence of an internal standard
 IN Copse, Catherine; Fowler, Susan Janet; Horsey, Imogen; Sweet, Alison
 Claire
 PA Amersham Biosciences UK Limited, UK
 SO PCT Int. Appl., 53 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004106923	A1	20041209	WO 2003-GB2323	20030528
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2525685	A1	20041209	CA 2003-2525685	20030528
	AU 2003234038	A1	20050121	AU 2003-234038	20030528
	AU 2003234038	B2	20080221		
	EP 1627224	A1	20060222	EP 2003-727708	20030528
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
	CN 1839316	A	20060927	CN 2003-826856	20030528
	JP 2006526137	T	20061116	JP 2005-500161	20030528
	US 20070161116	A1	20070712	US 2006-557521	20060911
PRAI	WO 2003-GB2323	W	20030528		

OS MARPAT 142:34835

AB Disclosed are matched fluorescent reagents and a method for reproducibly labeling membrane components, such as those expressed on the cell surface, and subsequent differential anal. of the labeled components to detect differences between cell types and states. Furthermore, the present method utilizes an internal standard in order to match protein patterns across gels thereby avoiding gel-to-gel variation. The method according to the invention is particularly useful, for example, for detecting low abundance membrane proteins, for detecting changes in receptors expressed in the cell membrane, for example on ligand binding, or in response to stimuli.

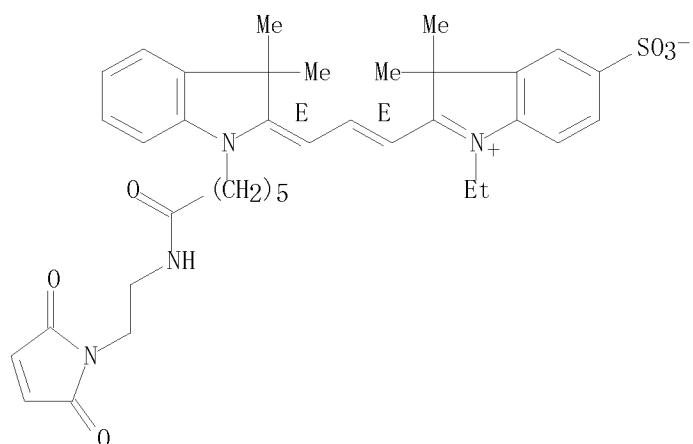
IT 644978-91-6 644978-92-7

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (differential anal. of cell surface proteins on closed membrane
 structures by labeling with dyes in presence of an internal standard)

RN 644978-91-6 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[2-(2, 5-dihydro-2, 5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1, 3-dihydro-3, 3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3, 3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

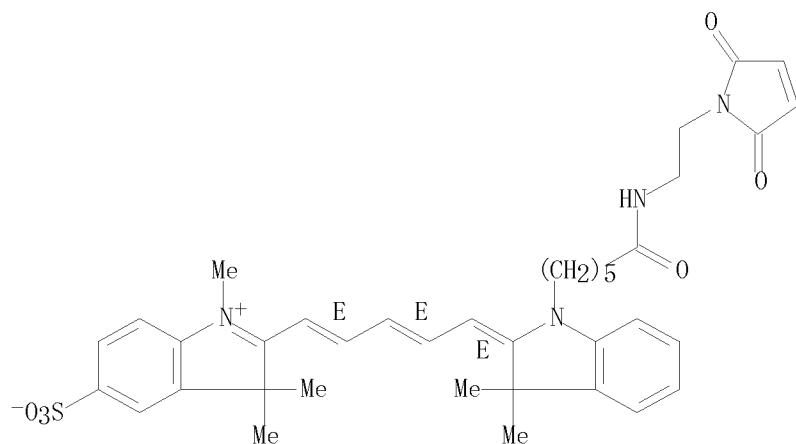
Double bond geometry as shown.



RN 644978-92-7 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1,3,3-trimethyl-5-sulfo-, inner salt (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:1037349 CAPLUS
 DN 142:19000
 TI Labeling of fusion proteins by enzymic incorporation of a coenzyme A derivative into an acyl carrier protein moiety
 IN Johnsson, Kai; George, Nathalie
 PA EPFL-Ecole Polytechnique Federale de Lausanne, Switz.
 SO PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004104588	A1	20041202	WO 2004-IB1733	20040519
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004242249	A1	20041202	AU 2004-242249	20040519
	CA 2526579	A1	20041202	CA 2004-2526579	20040519
	EP 1627226	A1	20060222	EP 2004-733881	20040519
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	CN 1826527	A	20060830	CN 2004-80020985	20040519
	JP 2007509608	T	20070419	JP 2006-530696	20040519
	US 20070082336	A1	20070412	US 2005-557897	20051122
	ZA 2005009454	A	20070530	ZA 2005-9454	20051122
PRAI	EP 2003-405364	A	20030523		
	WO 2004-IB1733	W	20040519		

OS CASREACT 142:19000; MARPAT 142:19000

AB A method for labeling acyl carrier protein (ACP) fusion proteins using derivs. of CoA is described. The method relies on the transfer of a label from a CoA type substrate to an ACP fusion protein using a holo-acyl carrier protein synthase (ACPS) or a homolog thereof. The method allows detecting and manipulating the fusion protein, both in vitro and in vivo, by attaching mols. to the fusion proteins that introduce a new phys. or chemical property to the fusion protein. Examples of such labels are, among others, spectroscopic probes or reporter mols., affinity tags, mols. generating reactive radicals, cross-linkers, ligands mediating protein-protein interactions or mols. suitable for the immobilization of the fusion protein. Synthesis of a series of reporter mol. conjugates, including digoxigenin, Cy3 and Cy5, with CoA is reported.

IT 756898-09-6P 756898-10-9P

RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation and labeling use of; labeling of fusion proteins by enzymic incorporation of coenzyme derivative into acyl carrier protein moiety)

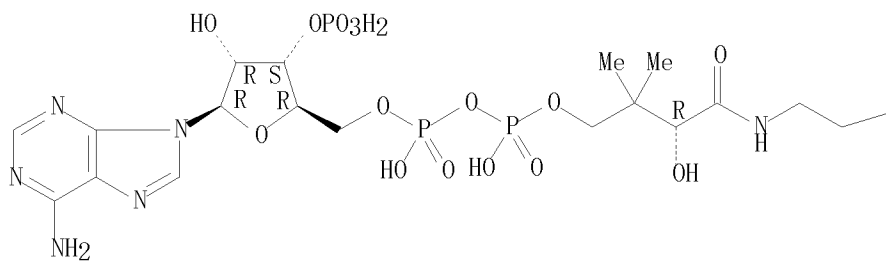
RN 756898-09-6 CAPLUS

CN Coenzyme A, S-[1-[2-[[6-[2-[3-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1-propenyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)

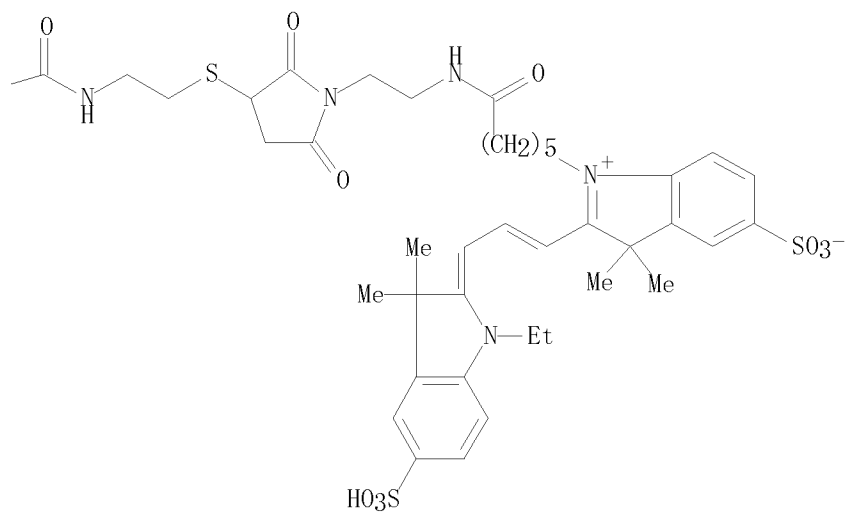
Absolute stereochemistry.

Double bond geometry unknown.

PAGE 1-A



PAGE 1-B

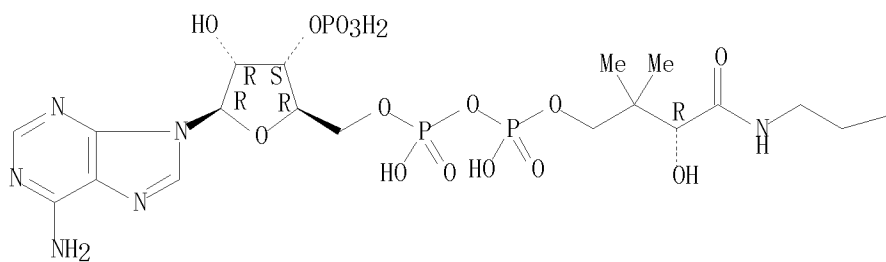


RN 756898-10-9 CAPLUS

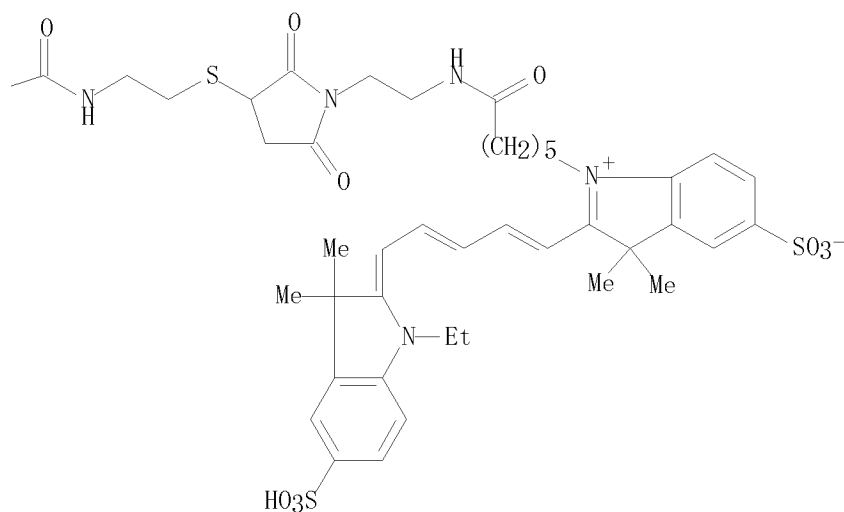
CN Coenzyme A, S-[1-[2-[[6-[2-[5-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B



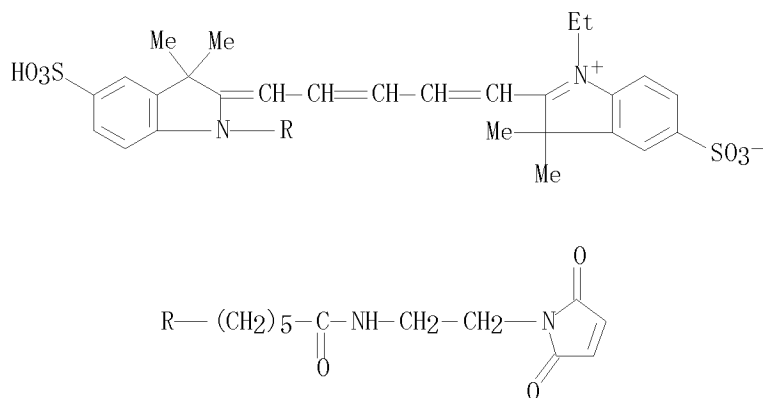
IT 416853-49-1 616207-80-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactions of; labeling of fusion proteins by enzymic incorporation of coenzyme derivative into acyl carrier protein moiety)

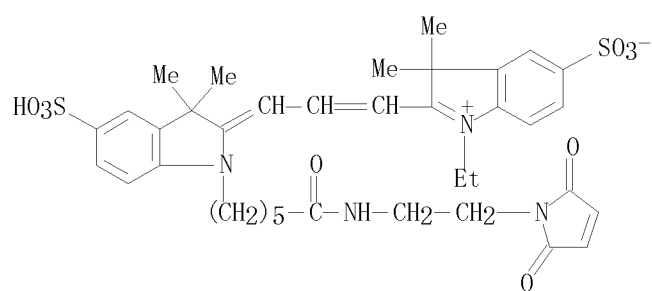
RN 416853-49-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt
(CA INDEX NAME)



RN 616207-80-8 CAPLUS

CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

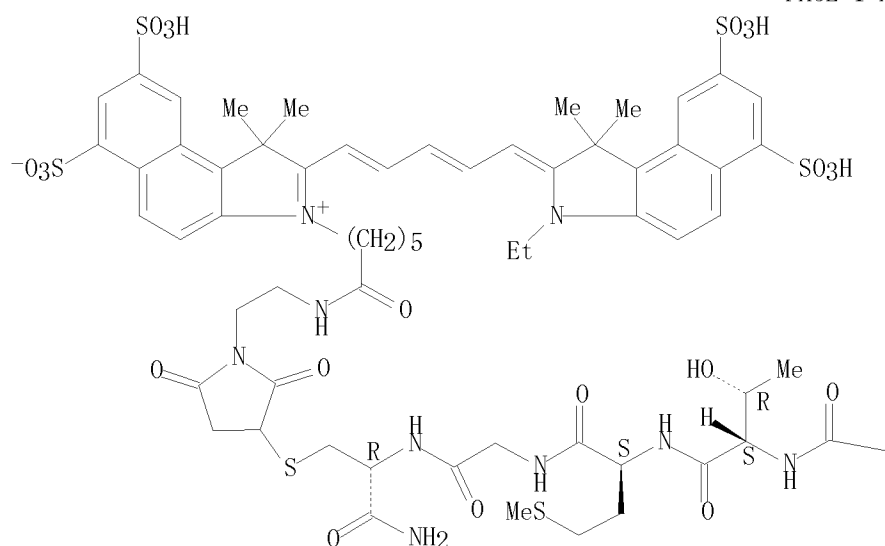


RE. CNT 13

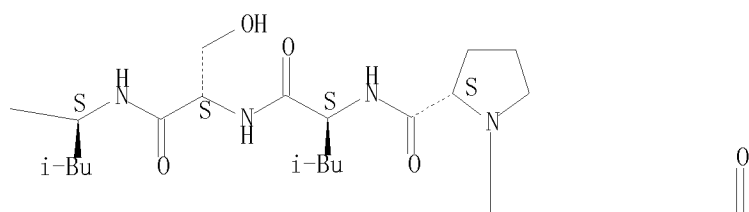
L4 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:775925 CAPLUS
 DN 141:421859
 TI Developing a peptide-based near-infrared molecular probe for protease sensing
 AU Pham, Wellington; Choi, Yongdoo; Weissleder, Ralph; Tung, Ching-Hsuan
 CS Center for Molecular Imaging Research, Massachusetts General Hospital, Harvard Medical School, Charlestown, MA, 02129, USA
 SO Bioconjugate Chemistry (2004), 15(6), 1403-1407
 CODEN: BCCHE; ISSN: 1043-1802
 PB American Chemical Society
 DT Journal
 LA English
 AB Recently near-IR (NIR) mol. probes have become important reporter mols. for a number of types of in vivo biomedical imaging. A peptide-based NIR fluorescence probe consisting of a NIR fluorescence emitter (Cy5.5), a NIR fluorescence absorber (NIRQ820), and a protease selective peptide sequence was designed to sense protease activity. Using a MMP-7 model, we showed that NIRQ820 efficiently absorbs the emission energy of Cy5.5 resulting in a low initial signal. Upon reacting with its target, MMP-7, the fluorescence signal of the designed probe was increased by 7-fold with a K_{cat}/K_m of 100 000 M⁻¹ s⁻¹. The described synthetic strategy should have wide application for other NIR probe preps.
 IT 795315-58-1P 795315-59-2P
 RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
 (peptide-based near-IR mol. probe for protease sensing)
 RN 795315-58-1 CAPLUS
 CN L-Cysteinamide, N-[[[2-[2-[3-[[5-carboxy-1,3-dihydro-3,3-dimethyl-1-(4-sulfobutyl)-2H-indol-2-ylidene]ethylidene]-2-chloro-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-(4-sulfobutyl)-3H-indolium-5-yl]carbonyl]glycyl-L-valyl-L-prolyl-L-leucyl-L-seryl-L-leucyl-L-threonyl-L-methionylglycyl-S-[1-[2-[[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadienyl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, bis(inner salt) (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

PAGE 1-A



PAGE 1-B

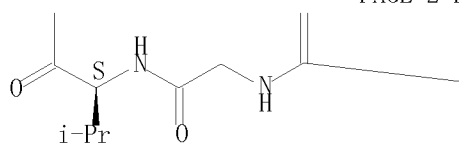


PAGE 1-C

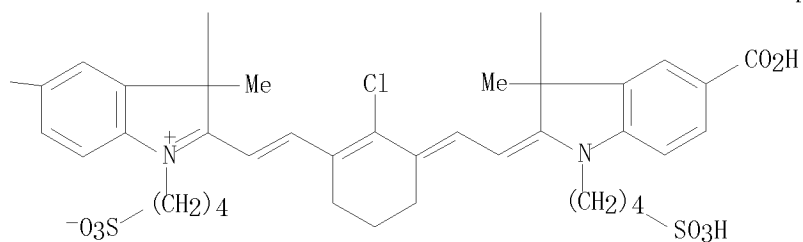
Me

Me

PAGE 2-B



PAGE 2-C



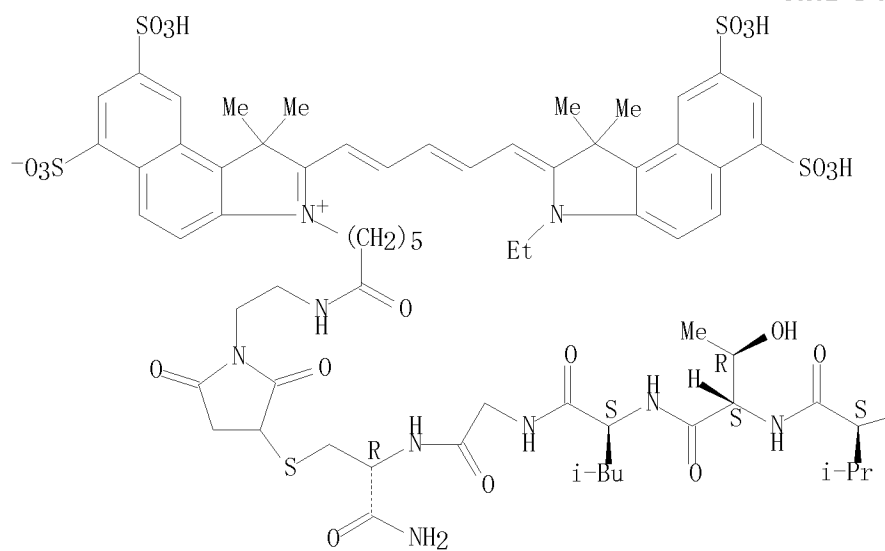
RN 795315-59-2 CAPLUS

CN L-Cysteinamide, glycyl-L-seryl-L-methionyl-L-leucyl-L-prolyl-L-valyl-L-threonyl-L-leucylglycyl-S-[1-[2-[6-[2-[5-(3-ethyl-1,3-dihydro-1,1-dimethyl-6,8-disulfo-2H-benz[e]indol-2-ylidene)-1,3-pentadienyl]-1,1-dimethyl-6,8-disulfo-1H-benz[e]indol-1-yl]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)

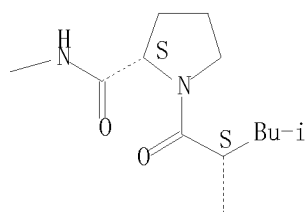
Absolute stereochemistry.

Double bond geometry unknown.

PAGE 1-A



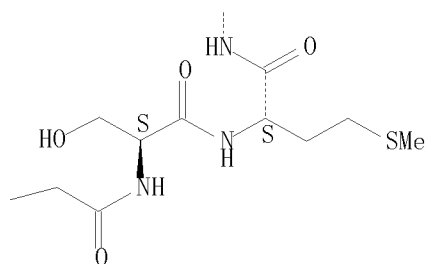
PAGE 1-B



PAGE 2-A

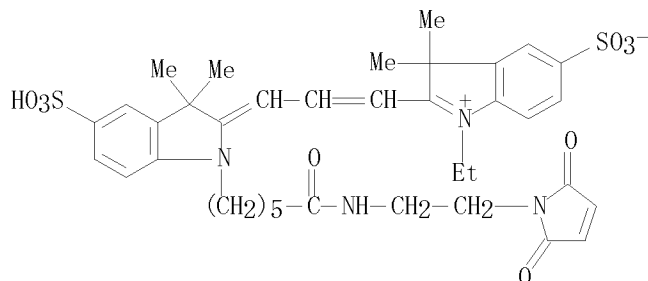


PAGE 2-B



RE. CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:714940 CAPLUS
 DN 141:391304
 TI General Strategy for Biosensor Design and Construction Employing
 Multifunctional Surface-Tethered Components
 AU Medintz, Igor L.; Anderson, George P.; Lassman, Michael E.; Goldman, Ellen
 R.; Bettencourt, Laura A.; Mauro, J. Matthew
 CS Center for Bio/Molecular Science and Engineering, U.S. Naval Research
 Laboratory, Washington, DC, 20375, USA
 SO Analytical Chemistry (2004), 76(19), 5620-5629
 CODEN: ANCHAM; ISSN: 0003-2700
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 141:391304
 AB Biosensors function by reversibly linking bioreceptor-target analyte
 binding with closely integrated signal generation and can either
 continuously monitor analyte concns. or be returned to baseline readout
 values by removal of analyte. We present an approach for producing fully
 reversible, reagentless, self-assembling biosensors on surfaces. In the
 prototype biosensor, quencher-dye-labeled biotin-linked E. coli maltose
 binding protein (MBP) bound in a specific orientation to a
 NeutrAvidin-coated surface is employed as a bioreceptor. To complete
 sensor formation, a modular tether arm consisting of a flexible
 biotinylated DNA oligonucleotide, a fluorescence resonance energy-transfer
 (FRET) donor dye, and a distal β -cyclodextrin (β -CD) analyte
 analog is bound in an equimolar amount to the same surface by means of
 DNA-directed immobilization. After self-assembly, a baseline level of
 FRET quenching is observed due to specific interaction between the β -CD
 of the flexible tether arm and the sugar binding site of MBP, which brings
 the two dyes into proximity. Addition of the target analyte, the nutrient
 maltose, displaces the linked β -CD-dye of the DNA-based tether arm,
 and a concentration-dependent change in FRET results. Biosensor sensitivity and
 dynamic range can be controlled by either using MBP variants having
 different binding consts. or by binding of modulator DNA oligonucleotides
 that are complementary to the flexible DNA tether. The sensor can be
 regenerated and returned to baseline quenching levels by washing away
 analyte. A complex set of interactions apparently exists on the sensing
 surface that may contribute to sensor behavior and range. This approach
 may represent a general way to assemble a wide range of useful biosensors.
 IT 616207-80-8
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (general strategy for biosensor design and construction employing
 multifunctional surface-tethered components for maltose anal.)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-
 yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-
 ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA
 INDEX NAME)

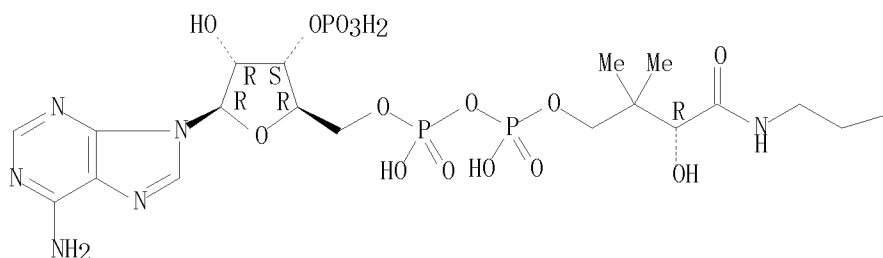


ALL CITATIONS AVAILABLE IN THE RE FORMAT

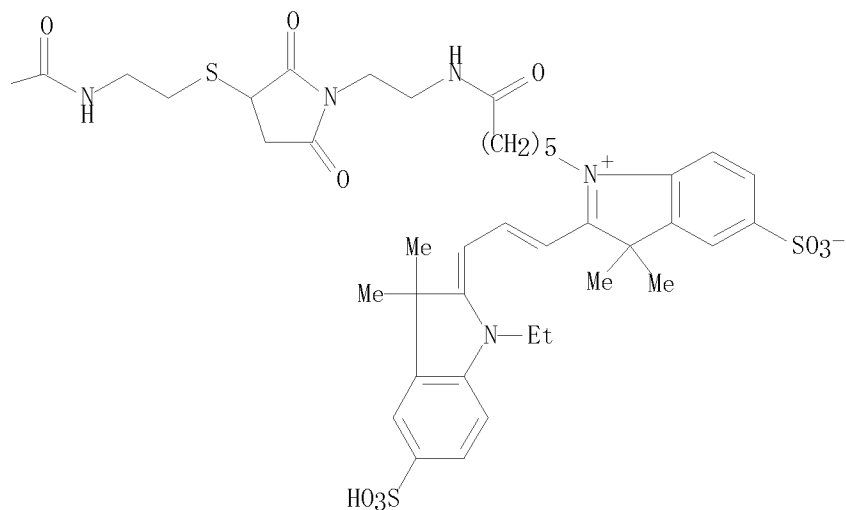
L4 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:534613 CAPLUS
 DN 141:256678
 TI Specific Labeling of Cell Surface Proteins with Chemically Diverse Compounds
 AU George, Nathalie; Pick, Horst; Vogel, Horst; Johnsson, Nils; Johnsson, Kai
 CS Institute of Chemical Sciences and Engineering, Ecole Polytechnique Federale de Lausanne (EPFL), Lausanne, CH-1015, Switz.
 SO Journal of the American Chemical Society (2004), 126(29), 8896-8897
 CODEN: JACSAT; ISSN: 0002-7863
 PB American Chemical Society
 DT Journal
 LA English
 AB The specific and covalent labeling of fusion proteins with synthetic mols. opens up new ways to study protein function in the living cell. Here the authors present a novel method that allows for the specific and exclusive extracellular labeling of proteins on the surfaces of live cells with a large variety of synthetic mols. including fluorophores, protein ligands, or quantum dots. The approach is based on the specific labeling of fusion proteins of acyl carrier protein with synthetic mols. through post-translational modification catalyzed by phosphopantetheinetransferase. The specificity and versatility of the labeling should allow it to become an important tool for studying and manipulating cell surface proteins and for complementing existing approaches in cell surface engineering.
 IT 756898-09-6P 756898-10-9P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (diverse ligand preparation and use in phosphopantetheinyltransferase-catalyzed labeling of cell surface proteins with acyl carrier protein fusion product derivs.)
 RN 756898-09-6 CAPLUS
 CN Coenzyme A, S-[1-[2-[[6-[2-[3-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1-propenyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.

PAGE 1-A



PAGE 1-B

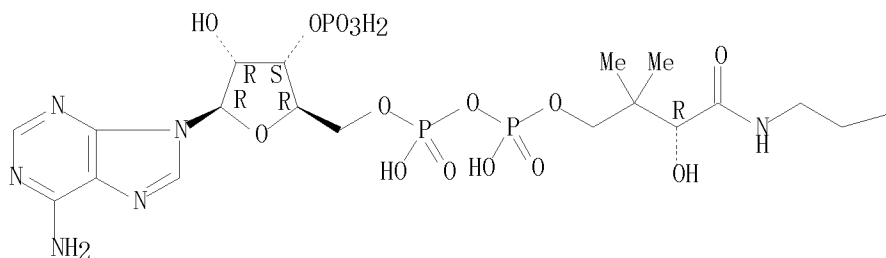


RN 756898-10-9 CAPLUS

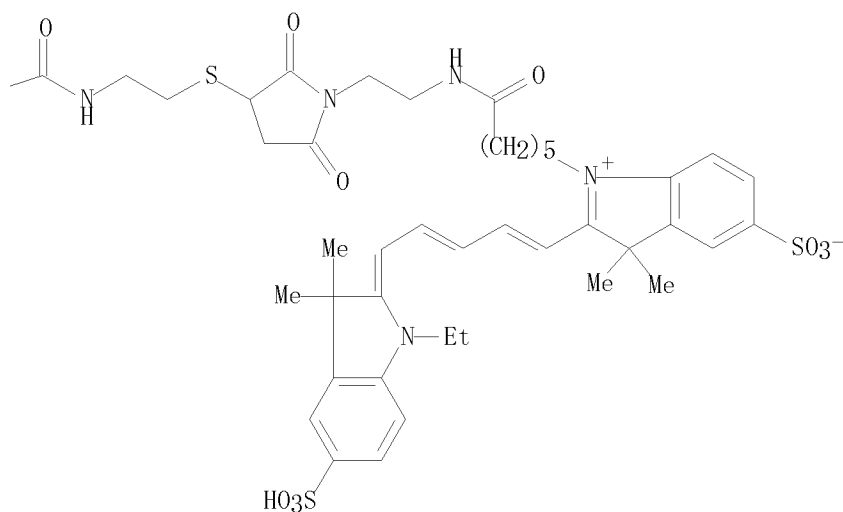
CN Coenzyme A, S-[1-[2-[[6-[2-[5-(1-ethyl-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene)-1,3-pentadienyl]-3,3-dimethyl-5-sulfo-3H-indolio]-1-oxohexyl]amino]ethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B



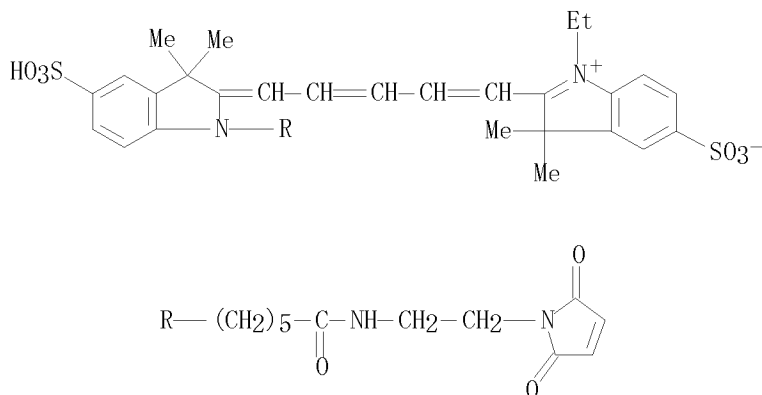
IT 416853-49-1 616207-80-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(diverse ligand preparation and use in
phosphopantetheinyltransferase-catalyzed labeling of cell surface
proteins with acyl carrier protein fusion product derivs.)

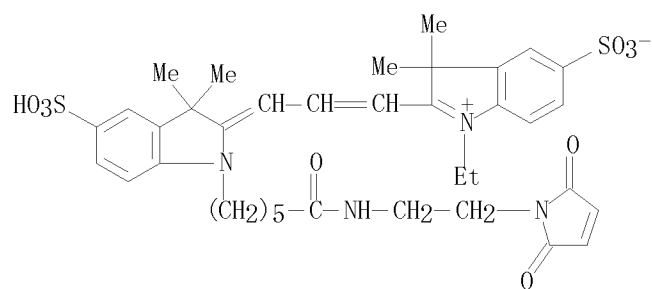
RN 416853-49-1 CAPLUS

CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt
(CA INDEX NAME)



RN 616207-80-8 CAPLUS

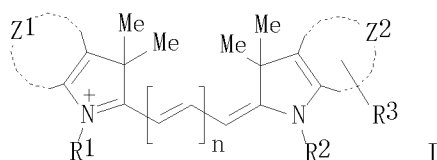
CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:41759 CAPLUS
 DN 140:90327
 TI Cysteine-binding fluorescent cyanine dyes for saturation labelling of
 proteins and application in 2D-gel electrophoresis
 IN Williams, Karen; Stone, Timothy; Simmonds, Adrian Christopher; Sweet,
 Alison Claire; Fowler, Susan Janet
 PA Amersham Biosciences UK Limited, UK
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004005933	A1	20040115	WO 2002-GB3142	20020708
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2491692	A1	20040115	CA 2002-2491692	20020708
	AU 2002317958	A1	20040123	AU 2002-317958	20020708
	AU 2002317958	B2	20070712		
	EP 1520176	A1	20050406	EP 2002-747568	20020708
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	CN 1650168	A	20050803	CN 2002-829498	20020708
	CN 1307263	C	20070328		
	JP 2005532543	T	20051027	JP 2004-518895	20020708
	US 20050233462	A1	20051020	US 2005-519433	20050623
PRAI	WO 2002-GB3142	W	20020708		
OS	MARPAT 140:90327				
GI					



AB A matched set of fluorescent dyes is provided, wherein each dye of the set is capable of covalent attachment to a protein and wherein each of the dyes has a mol. structure and a charge that is matched one with the other, such that relative electrophoretic mobility of a protein labeled with one dye of the set is the same as the electrophoretic mobility of the protein labeled with a different dye of the set. The matched set comprises at least two different fluorescent dyes of formula (I): wherein n is 1, 2, or 3; Z1 and Z2 independently represent the carbon atoms necessary to complete a Ph or naphthyl ring system; one of groups R1 and R2 is a target bonding group; remaining group R1 or R2 is selected from $-(CH_2)_4-W$ or $-(CH_2)_r-H$; group R3 is hydrogen, except when either R1 or R2 is $-(CH_2)_r-H$, in which case R3 is W; and W is selected from sulfonic acid and sulfonate. The invention also provides a method for saturation labeling of a protein with a fluorescent dye so as to label all available target amino acid, suitably

cysteine, residues in the protein, thereby giving a single population of labeled protein mols.

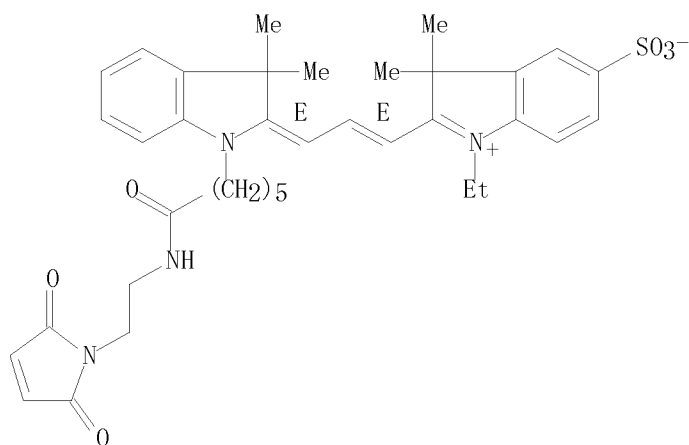
IT 644978-91-6P 644978-92-7P 644978-93-8P
644978-94-9P 644978-95-0P 644978-96-1P
644978-97-2P 644978-98-3P 644978-99-4P
644979-00-0P 644979-01-1P

RL: ARG (Analytical reagent use); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(cysteine-binding fluorescent cyanine dyes for saturation labeling of proteins and application in 2D-gel electrophoresis)

RN 644978-91-6 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

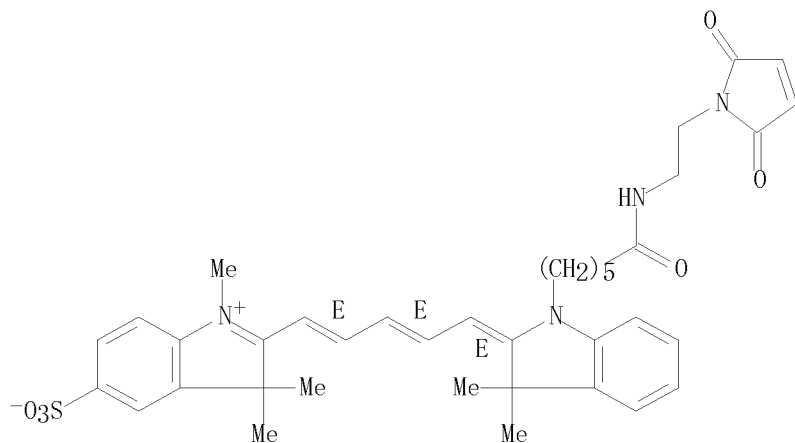
Double bond geometry as shown.



RN 644978-92-7 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1,3,3-trimethyl-5-sulfo-, inner salt (CA INDEX NAME)

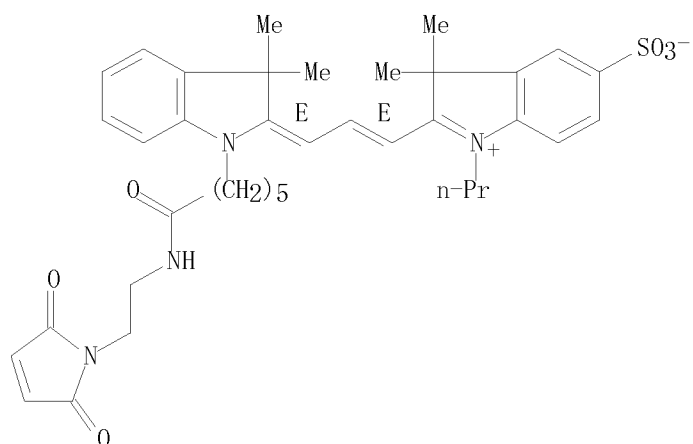
Double bond geometry as shown.



RN 644978-93-8 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-3,3-dimethyl-1-propyl-5-sulfo-, inner salt (CA INDEX NAME)

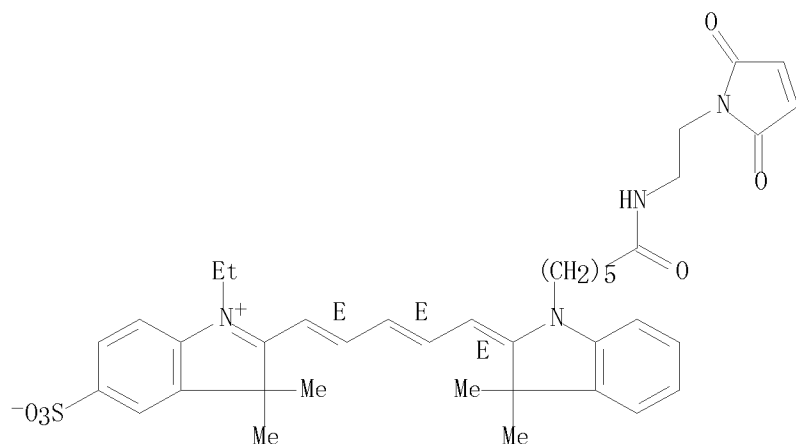
Double bond geometry as shown.



RN 644978-94-9 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

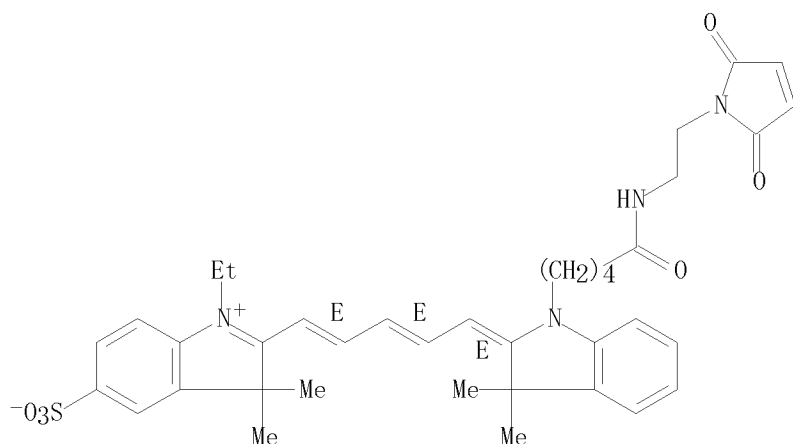
Double bond geometry as shown.



RN 644978-95-0 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[5-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-5-oxopentyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

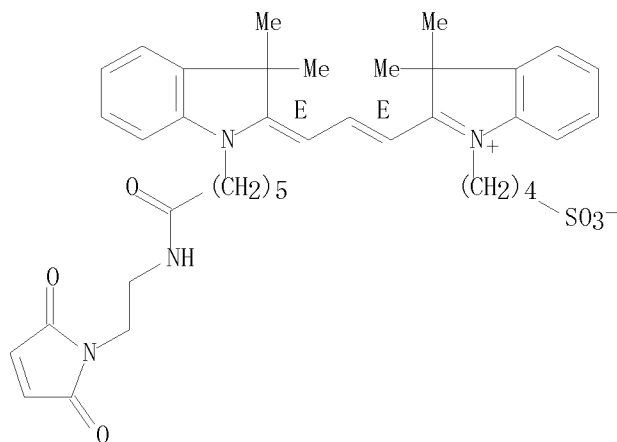
Double bond geometry as shown.



RN 644978-96-1 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (CA INDEX NAME)

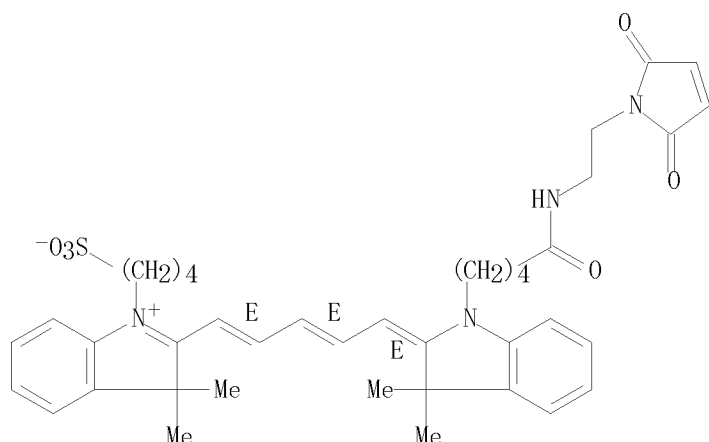
Double bond geometry as shown.



RN 644978-97-2 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[5-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-5-oxopentyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (CA INDEX NAME)

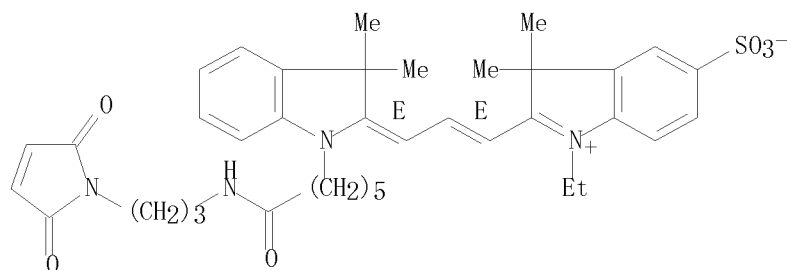
Double bond geometry as shown.



RN 644978-98-3 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)

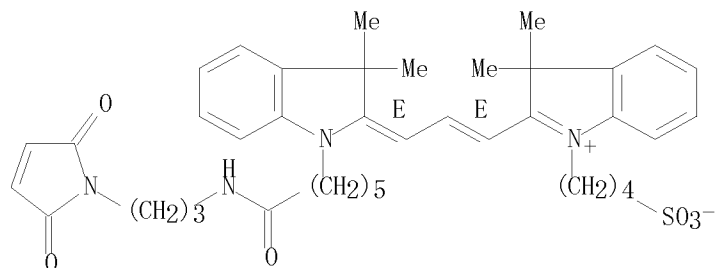
Double bond geometry as shown.



RN 644978-99-4 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E)-3-[1-[6-[[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)propyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (CA INDEX NAME)

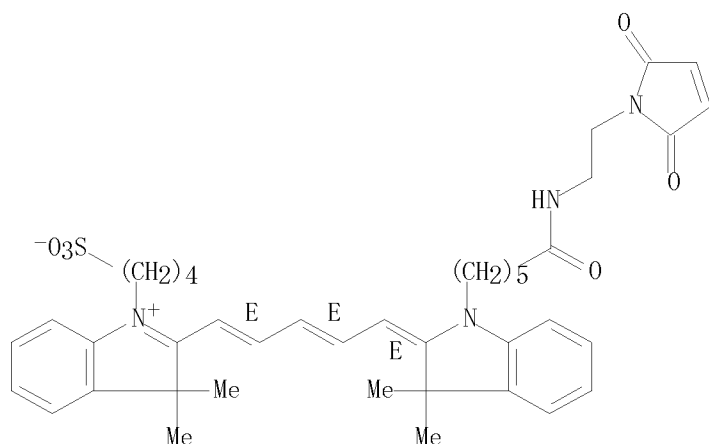
Double bond geometry as shown.



RN 644979-00-0 CAPLUS

CN 3H-Indolium, 2-[(1E, 3E, 5E)-5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-3,3-dimethyl-1-(4-sulfobutyl)-, inner salt (CA INDEX NAME)

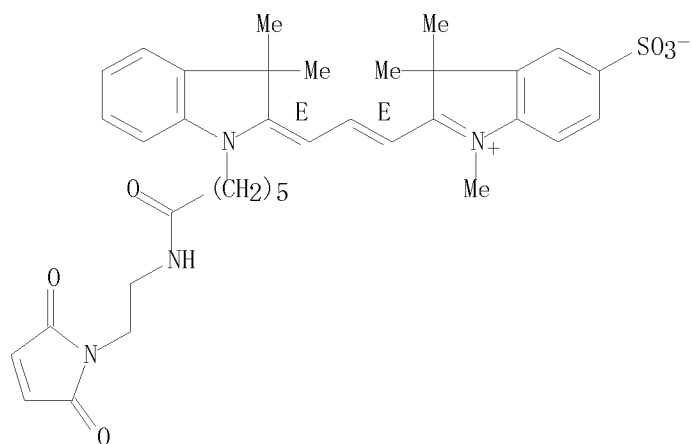
Double bond geometry as shown.



RN 644979-01-1 CAPLUS

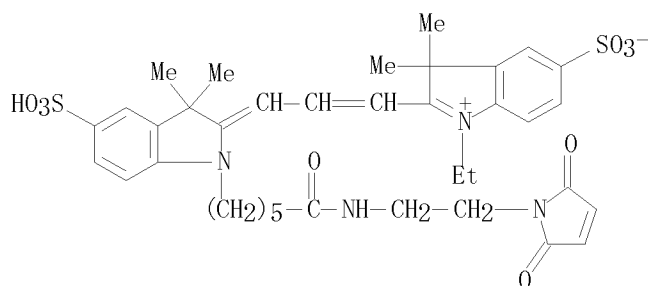
CN 3H-Indolium, 2-[(1E,3E)-3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1-propen-1-yl]-1,3,3-trimethyl-5-sulfo-, inner salt (CA INDEX NAME)

Double bond geometry as shown.



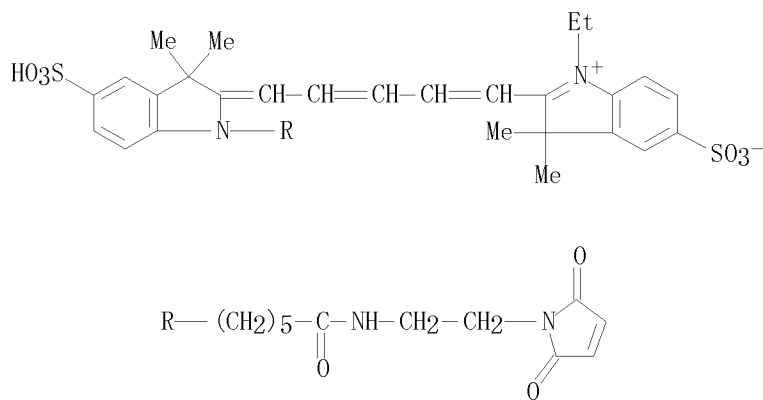
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2003:679367 CAPLUS
 DN 139:334980
 TI A fluorescence resonance energy transfer sensor based on maltose binding protein
 AU Medintz, Igor L.; Goldman, Ellen R.; Lassman, Michael E.; Mauro, J. Matthew
 CS Center for Bio/Molecular Science and Engineering, U.S. Naval Research Laboratory, Washington, DC, 20375, USA
 SO Bioconjugate Chemistry (2003), 14(5), 909-918
 CODEN: BCCHE; ISSN: 1043-1802
 PB American Chemical Society
 DT Journal
 LA English
 AB A fluorescence resonance energy-transfer (FRET) sensing system for maltose based on E. coli maltose binding protein (MBP) is demonstrated. The FRET donor portion of the sensing system consists of MBP modified with long wavelength-excitable cyanine dyes (Cy3 or Cy3.5). The novel acceptor portion of the sensor consists of β -cyclodextrin (β -CD) modified with either the cyanine dye Cy5 or the dark quencher QSY9. Binding of the modified β -CD to dye-conjugated MBP results in assembly of the FRET complex. Added maltose displaces the β -CD-dye adduct and disrupts the FRET complex, resulting in a direct change in fluorescence of the donor moiety. In the use of these FRET pairs, MBP dissociation values for maltose were estimated (0.14-2.90 μ M). Maltose limits of detection were in the 50-100 nm range.
 IT 616207-80-8
 RL: ARU (Analytical role, unclassified); ANST (Analytical study) (electron acceptor; fluorescence resonance energy transfer sensor based on maltose binding protein)
 RN 616207-80-8 CAPLUS
 CN 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:135291 CAPLUS
 DN 136:337160
 TI Imaging of the fluorescence spectrum of a single fluorescent molecule by prism-based spectroscopy
 AU Suzuki, Yoshikazu; Tani, Tomomi; Sutoh, Kazuo; Kamimura, Shinji
 CS Department of Life Sciences, University of Tokyo, Graduate School of Arts and Sciences, Tokyo, Meguro, 153-8902, Japan
 SO FEBS Letters (2002), 512(1-3), 235-239
 CODEN: FEBLAL; ISSN: 0014-5793
 PB Elsevier Science B.V.
 DT Journal
 LA English
 AB We have devised a novel method to visualize the fluorescence spectrum of a single fluorescent mol. using prism-based spectroscopy. Equipping a total internal reflection microscope with a newly designed wedge prism, we obtained a spectral image of a single rhodamine red mol. attached to an essential light chain of myosin. We also obtained a spectral image of single-pair fluorescence resonance energy transfer between rhodamine red and Cy5 in a double-labeled myosin motor domain. This method could become a useful tool to investigate the dynamic processes of biomols. at the single-mol. level.
 IT 416853-49-1
 RL: ARU (Analytical role, unclassified); PRP (Properties); ANST (Analytical study)
 (imaging of fluorescence spectrum of single fluorescent mol. by prism-based spectroscopy)
 RN 416853-49-1 CAPLUS
 CN 3H-Indolium, 2-[5-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-, inner salt (CA INDEX NAME)



RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 14:21:25 ON 08 JAN 2009)

FILE 'REGISTRY' ENTERED AT 14:21:39 ON 08 JAN 2009

L1 STRUCTURE UPLOADED

D

L2 4 SEA SSS SAM L1

D SCAN

L3 26 SEA SSS FUL L1

D QUE L3 STAT

D 1-26 IDE CAN

FILE 'CAPLUS' ENTERED AT 14:23:44 ON 08 JAN 2009

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D 1-25 BIB ABS HITSTR

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

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FILE COVERS 1907 - 8 Jan 2009 VOL 150 ISS 2

FILE LAST UPDATED: 7 Jan 2009 (20090107/ED)

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<http://www.cas.org/legal/infopolicy.html>

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